# AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

NOVEMBER 15, 1949

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# American Nurseryman

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

=VOL. XC, No. 10=

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NOVEMBER 15, 1949=

# Founded 1904 With which was merged 1939 THE NATIONAL NURSERYMAN Established 1893

#### Published on the first and fifteenth of each month by the AMERICAN NURSERYMAN PUBLISHING COMPANY 343 South Dearborn Street,

Chicago 4, Illinois. Telephone: WAbash 2-8194

Subscription Price: \$3.00 per year: outside United States, \$4.00; Single Copies, 15c.

Advertising Rates on application. Forms close fifteen days before date of issue.

Entered as second-class matter December 14, 1933, at Chicago, Ill., under act of March 3, 1879.

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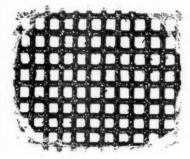
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# AMERICAN NURSERYMAN

F. R. KILNER, Editor and Publisher Joan L. Kilner, Assistant Editor

#### Editorial

#### CLIMATE CONTROL.

Control of climatic conditions on the home grounds and within the home will furnish retail nurserymen much sales ammunition, if use is made of current releases by the public information service of the American Association of Nurserymen.

Planned planting of trees and shrubs may control temperature on a good-size lot by as much as 10 to 15 degrees, according to a current release, which points out that the home can be made cooler in summer and warmer in winter while the homeowner at the same time saves on his fuel bills.

Statistics relating to the possible control of climate by planting are derived from a survey made by House Beautiful magazine with the help of several scientists, some of the results of which were published in its October issue.

Some of the procedures are well known and have been long advocated. These are the use of trees and shrubs as windbreaks, the planting of trees close to the house to keep the roof cool in summer and the placing of hedges to keep out the dust and heat of paved roads and sidewalks.

The case for the windbreak is substantiated by a statement that in heating an ordinary house twice as much fuel is required when the outdoor temperature is 32 degrees and a wind of twelve miles per hour is blowing than is required at the same temperature when the wind is blowing three miles per hour. In the heat of summer, if the foliage of trees shades the house roof and west wall, the temperature may be reduced as much as 20 to 40 degrees, it is asserted. And if deciduous trees are used for such summer shade, the house will get the full benefits of the sun when the leaves are gone in winter. The outdoor living room may bring coolness, for it is stated that on a relatively cool afternoon in August the temperature may be only 77 degrees at a height of six feet in the shade while it is 95 degrees on a concrete walk in the sun, 110 degrees on a roof and 88 degrees on short grass in the sun.

Some other suggestions for temperature control are offered, such as protection from early frost by guid-

#### The Mirror of the Trade

ing the cold air away from gardens by means of hedges. The use of deciduous vines on trellises over windows is suggested to keep the hot sun out of the house in summer and yet allow it to shine inside in the winter. If grass is grown between squares of concrete, flagstone or brick, cooler walks and terraces in summer will be the

By proper planning, home grounds can be planted in such a way that parts of them will be protected from the hot sun in summer and yet receive the full strength of the sun in winter. The sun rises in the northeast in summer and in the southeast in winter: plantings may be made to take advantage of this change according to season with comfort to the householder.

Publicity on this subject should be of benefit to nurserymen at a time when home building is on the increase. While too few home grounds are laid out to take advantage of the findings of scientists, some of the measures advocated will be practical. The fact that there is an economic value in planting trees and shrubs may induce owners of new homes to spend more on such plantings than seems to be the aver-

#### LAW AND NOT EDICTS.

age case at present.

While the action of Congress in raising the minimum wage to 75 cents per hour may not have the easy acceptance in all parts of the country that the administration anticipated. business will be relieved by the fact that the new law strives to end the bureaucratic practice at Washington of adding to the coverage of the act by new interpretations. The fair labor standards act as passed in 1938 applied to workers in jobs "necessary" to production for interstate commerce. By bureaucratic edicts the word necessary was extended in its application until it came to include the men who mowed the lawns that surrounded factories producing for interstate commerce, as well as the window washers that cleaned the factory panes.

The new law provides that coverage is extended only to those workers in jobs "directly essential" to production for interstate commerce. While it may be some time before the interpretation is clear, the intent of Congress is to make accurate definitions and remove, as far as possible.

the tendency of administrative bureaus to lawmaking by edict, instead of by Congress itself.

Another clarification is the rule that the coverage of retail establishments is confined to those doing fifty per cent or more of their trade out of state. This provision will end much uncertainty arising from bureau rulings.

Further relief for the businessman is in the provision that government suits for back wages shall be confined solely to settled points of law and to specific amounts allegedly owed, without damages. Back wage recovery actions are limited to two years. To a moderate extent, at least, these provisions will take the government out of business interference, and substitute law made by Congress for edicts made by bureaus.

#### OAK WILT.

Articles on the oak wilt disease which have appeared in this magazine in the past few years gave nurserymen knowledge of this new enemy of trees, then largely restricted in its effects. Each successive year, however, has seen the ravages of oak wilt spread farther and become more virulent in the areas where it had existed previously. Its appearance in the forest preserves of Cook county. adjacent to the city of Chicago, caused alarm for the oak woods which were among the most valuable parts of these preserves. Noel B. Wysong, forester for the Cook county preserves, consequently made a trip through the adjacent areas of Illinois and those in Wisconsin and Iowa where the disease had been noted. In the article in this issue he not only presents detailed information on the disease, by which nurserymen can learn to recognize it, but he reports its ravages and the threat imposed by its possible spread.

Already the proportions of the oak wilt disease have caused requests to be made to the federal authorities for research which might discover means of control. Nurserymen are being asked, through their organizations, to support that request. Hence the article in this issue is enlightening, not only as to the facts known regarding the disease itself, but also as to its importance as a threat to the oaks that are among the irreplaceable beauties of our streets, parks and countryside.

# **Magnolias from Stem Cuttings**

By James S. Wells

The production of certain varieties of magnolias from softwood cuttings is now a practical and accepted method of propagation. The term "successful" is relative, and, to support this assertion, we should say that we have propagated slightly more than 20,000 magnolias of the

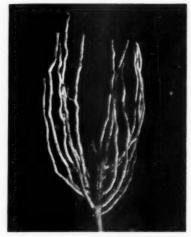


Illustration 1 — Cutting of Magnolia soulangeana showing the scar tissue covering the heavy wound, and the strong rooting which followed this treatment.

species soulangeana, soulangeana nigra, stellata, stellata rosea and lennei, entirely from cuttings this year. To achieve this, we have had to experiment through the past three years, trying various methods, discarding some and altering others, until we believe that we have established a fairly successful procedure.

Cuttings are taken any time from early July until late August, or even early September. It is not possible to give the accurate date when cuttings will first be in a fit condition to take, for it is here that the judgment of the propagator has to be exercised. To give some indication of the condition which we consider to he best for cuttings, we have found that relatively short shoots which are hardening up and commencing to form flower buds at the tip are in just the right condition for taking as cuttings. The wood will be firm, and active growth at the tip of the shoot will have ceased. When taking these flowering shoots, we normally re-move the flower bud as the cutting is made. Although this is the best type of cutting, all types of growth can be used for cutting wood.

Strong, vigorous shoots sent out by the plant from lower down can be used, these being cut into short sections containing three nodes. The bottom leaf is removed, and the two upper leaves remain. When using this type of shoot for cuttings, the soft tip, which still may be in active growth until September, is of no value and should be removed. The wood, no matter what type of cutting is taken, has to be firm, but not really hard. Only by experiment and practice in gauging the right condition of the shoots for cutting can one come to know just when to start. He should remember, however, that if cuttings are made from really soft material, successful rooting is extremely improbable. On cuttings made from vigorous-growing trees, the leaves which remain may be much too large for practical purposes. If this is the case, these leaves can be reduced to half their normal size without injury and without materially affecting the rooting of the cut-

We now come to wounding the base of the cutting, one of the most important operations. It can be done in two ways. On firm wood we usually use the heavy wound, which is clearly shown in illustration 1. This is made by removing, with a sharp knife, a very thin slice of the outer tissue from the base of the cutting, exposing the cambium tissue which lies beneath. The second type of wound is made by drawing the tip of a sharp knife blade down the stem of the cutting, at its base, to cut through the outer tissues without cutting deeply into the center woody tissues (2). With this last method no portion of the cutting is removed.

After wounding, we dip the cuttings into hormone powders. We have found a mixture containing eight milligrams to the gram of indolehutvric acid to be most satisfactory. With this treatment, however, the skill and judgment of the propagator will again be needed, for if the cuttings are soft, he may wish to use the No. 2 powder containing four milligrams to the gram. Cuttings are then inserted, in the normal manner, in a bench with bottom heat of 65 to 70 degrees, filled with a 60-40 mixture of sand and peat. Gentle daily spraying, to keep the leaves fresh and the cuttings turgid, is all that is required, and in six to eight weeks the

majority should be strongly rooted (3 on the next page).

Constant vigilance is necessary at this time to discover any indication of the cuttings' dropping their leaves. a condition which may be brought about by any number of different causes. The wood may be too hard, the greenhouses may be too cool, or the cuttings may have received an additional shock in some way. Once defoliated, the cuttings are useless. and it is important, therefore, that every effort should be made by the propagator to retain as many leaves as possible on the cuttings. Occasionally mildew attacks the leaves in the bench, and we have found that spraying with normal strength Semesan completely controls this. It is an excellent idea to spray the cuttings. as a preventive measure, after they have been in the bench for two or three days.

Once the cuttings are rooted, they are carefully lifted from the bench and then potted. Any which are only beginning to root are set back into the bench, if the leaves are still attached, for they will take root if given two weeks more. Great care



Illustration 2—Details of Light Wound.

is necessary when potting, for the roots are tender and brittle. We use a normal potting compost containing top spit soil, peat, sand and a light dusting of superphosphate. The compost should be only slightly moist so that it runs freely between the roots of the cutting during potting. It is essential that the stem should not be pressed down into the pots during



Illustration 3-Successfully Rooted Cuttings of Magnolia Soulangeana.

this operation, for in this way the young, tender tips of the new roots are broken off, and this injury can cause them to die back, killing the whole plant. Hold the cutting in the pot, gently trickle the soil around the roots and tap the pot on the bench to work the soil between the roots of the plant. A light firming at the top is all that is necessary to complete the operation. The potted plants are returned immediately and are placed on the bench in exactly the same conditions under which they were rooted. The pots are well watered and the houses kept close and warm. This is a most important part of the sequence of operations, for upon the vigorous rooting of the cutting in the pot depends the ability of the plants to come successfully through the hard winter months. This question of overwintering is one which has stopped many growers from attempting propagation of magnolias and other plants from cuttings. We have overcome the problem with magnolias. We have found, however, that it is essential that the cuttings become established in the pots and at least make the first movement toward top growth. This may be merely a swelling of the terminal buds at the apex of the cutting. If this swelling and plumping up of the buds can be seen, and if the cutting has a well established root system in the pot, you can confidently expect it to come through the winter (3B). On the other hand, if the buds at the top of the cutting remain the same size and in the same condition they were in when the cutting was first taken from the parent plant, then,

usually, that cutting will die. We try to get the plants to break the terminal buds and to have one to three inches of new growth before they begin to harden off and drop their leaves in the late fall. With late batches of cuttings, however, it is not always possible to break the plants into new growth, and one has to be content with the first signs of this, as shown by the swelling of the terminal buds.

As the first batches are potted and returned to the greenhouse, they make vigorous roots in the pots, and,

in three to four weeks, the new top growth will be seen. This is the time when we remove the plants from the greenhouse and place them in deep frames. The pots are plunged in a bed of peat and are covered completely by at least one-half inch of peat. The frames are covered with lath shades to give all the light and air possible, and the cuttings are encouraged to continue growing, yet hardening up at the same time. As the fall weather cools, the plants will stop growing, and finally they will shed their leaves in the normal manner. The beds are then lightly cleaned up to remove most of the leaves and any weeds which may have grown, and then they are covered with sash for the winter. No further protection is given except reed mats in the coldest weather. In the winter of 1947 to 1948, which was much colder than that of 1948 to 1949, the cuttings and the pot balls froze solid for nearly six weeks. During this time we kept the frames covered with the reed mats, which were not removed until the frames had slowly thawed after the weather broke. We consider this slow thawing after freezing to be most important to the successful overwintering of young stock of this

As soon as the ground was in a satisfactory condition in the spring, beds were prepared with a generous dressing of manure and rototilled, and the plants were brought out of the frames and lined out nine inches

[Continued on page 65.]

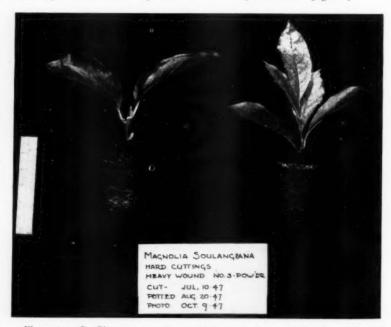


Illustration 3B-Plumping up of terminal buds on plant at left and new growth on the plant at the right,

# **Texture in Foundation Plantings**

By Clarence E. Lewis

Most jobs are mediocre when completed unless they show the results of thorough planning. They can be made better by employing that "extra something," which, in landscape planning, is the judicious use of texture. This is the added touch which makes the difference between an ordinary planting and a well finished one.

The larger the leaf, the coarser the texture, and, inversely, the smaller the leaf, the finer the texture. Rhododendron catawbiense, Kalmia latifolia, and Azalea (Rhododendron) amoena are examples of coarse, medium and fine texture, respectively. It is best to think of plants as belonging to one of these three classes.

Scale relationship can be seriously affected by the use or misuse of texture in foundation and other plantings. The larger the area, the house or the size of stone in the house, the more adaptable are large-leaved plants. A large home, for instance, can accept more large-leaved rhododendrons in a foundation planting than a small home. By the same token, a large home of coarse stone is more adaptable to coarse-leaved plants than one of finer material, such as thin stone or brick.

Texture becomes increasingly important as the size of the house, visible structural material in the house and the area become smaller. The smaller the home, the more important it is that large-leaved plants be placed properly. Since the owners of small homes request such plants as Rhododendron catawbiense for their foundation plantings, these plants should be used at the outer corners, with medium-textured plants in the connecting areas (between corners and doorway plantings). Coarserleaved plants carry more pictorial weight, for which reason they confine attention to the area between them, or provide psychological outer boundaries when used on the corners (see illustration A). This is desirable, since the main focal point is the doorway. It is better to adapt principally medium and fine-textured plants to most small houses or areas. This is more important if the house is of brick, thin stone or narrow clapboards.

Clarence E. Lewis is senior instructor in the school of horticulture at the Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

It is usually better not to plant a coarse-textured plant beside a fine-textured one (see illustration B on page 10). This would provide too much contrast and too much interest. However, this effect is sometimes desirable in border plantings where emphasis is needed. Grading from coarse to medium texture, and from medium to fine, provides better harmony and blending for most plantings, foundation type or otherwise.

Texture casts its influence on balance. One coarse-textured plant, such as Rhododendron maximum, may be balanced with three mediumtextured plants of Kalmia latifolia, or a large mountain laurel may be balanced with an enkianthus and a group of small-leaved azaleas. Because three plants are planned for one corner of the house, it is not necessary that the opposite corner should also have three plants. Our minds function too much this way. A more interesting planting is achieved by having the outer corners planned with different species of varied size and form. By using differently textured plants at the corners, it is easier to balance three against one. The same practice can be followed in plantings elsewhere than around the foundation. It is a question of weight and mass, because it takes a mass of medium-textured foliage to balance one coarse-leaved plant. In fact, it amounts to a comparison of leaf surfaces, where you provide extra plants on one side in

order to approximate the same amount of leaf surface as that of the plant on the other side.

I do not wish to imply that we should study each plant as to the exact size of its leaf before fitting it into a planting, but we should think of it as belonging to one of the three classes-coarse, medium or fine. It is hard, in some instances, to say whether plants are definitely fine or medium and, in other cases, whether they are coarse or medium. When they present such a situation they can be used with plants of either texture classification. I refer to Rhododendron carolinianum as an example. This might be classified as either coarse or medium; thus, it can be used with plants of either coarse or medium texture.

Study texture more intently and think of it as you formulate planting plans. Its correct use makes for more effective plantings and better satisfied customers.

The direction in which a house faces also governs the selection of plants. When the exposure is south or west, and the soil is low in organic matter and unshaded, it is difficult to grow good plants of many of the broad-leaved evergreens. Because of the greater loss of water from the plants and soil in such an exposure, the soil should be supplied with organic matter. Finely granulated peat moss should be applied if the soil test does not show an OM reading of "high." When the water-holding



Illustration A-A Rhododendron catawbiense on the corner with mountain laurel, Kurume azaleas and yews in the connecting area.



Illustration B-Rock cotoneaster (Cotoneaster horizontalis) next to Rhododendron catawbiense.

capacity of the soil is improved, plants branch better and show richer green foliage. The planting of a tree to cast some shade is also helpful.

The eastern exposure is not so troublesome, because the sun does not pull so much water from a plant in the morning as it does at midday or during the afternoon. The addition of peat moss will probably not be amiss there, either.

The north exposure offers the greatest problem, since there are not many plants that grow well in the shade. Plants growing under northerly shade conditions often become too leggy and, consequently, are not well adapted for foundation plantings.

Plants suitable for foundations that have a northern exposure are listed below. Some accept more shade than others. The list is by no means complete.

Taxus baccata repandens.
Taxus cuspidata (spreading).
Taxus cuspidata nana.
Taxus (selected seedlings).
Abelia grandiflora.
Euonymus fortunei and varieties.
Euonymus patens.
Hedera helix and hardy varieties.
Ilex crenata convexa.
Ilex crenata helleri.

Ilex crenata nelleri.

Ilex crenata (and other good varieties, such as Green Island).

Ilex glabra.

Ilex opaca. Kalmia latifolia. Leucothoe catesbaei.

Mahonia aquifolium (better as a basal grower where it is cut back).

Pieris japonica. Rhododendron. Sarcococca hookeriana humilis Vinca minor Bowles. Azalea.

Pachysandra terminalis. Pieris floribunda.

Benzoin aestivale. Cornus florida. Cornus mas. Cotoneaster dielsiana.
Forsythia intermedia and varieties.
Fothergilla.
Ilex verticillata.
Ligustrum.
Myrica gale.
Rhodotypos scandens (kerrioides).
Symplocos paniculata.
Syringa josikaea.
Syringa villosa.
Syringa villosa.
Syringa vulgaris.
Viburnum dentatum.
Viburnum dilatatum.
Viburnum opulus.
Viburnum tomentosum.
Zanthorhiza apiifolia.

There are other things to think about when plants are to be used in the shade. If the area has a poor circulation of air, growth is not so dense, and the appearance of the plant is often thin and leggy. Plants that withstand partial shade make better growth where there is a good circulation of air and even will ac-

cept more shade if the air is not stagnant.

Filtered shade such as that beneath a London plane tree encourages better growth than the dense shade cast by a Norway maple, for the light is better and the air itself is more conducive to good growth.

There are other ways of improving foundation plantings or giving them a more finished look. For instance, a tree or sometimes trees placed strategically on the lawn in front of a home improve the home and make it more a part of the planting. It tends to give depth, or a third dimension, that cannot be achieved in any other way. The same effect is created in good photography. The selection of the tree and consideration of its ultimate size are important. The larger the house and the area, the more adaptable are large trees. Small houses on small plots look better if planted with small trees, such as flowering dogwoods. A tree should rarely be planted on line with an entranceway or a direct window view. It should be placed so that you look under its branches to the house and its planting. It acts as a frame, encouraging you to view the house beyond.

The smaller the house and the property, the more important it is to beware of overplanting. If the house has simple lines, this is even more important.

Observe where the weight of the house is. If the tallest part of the house, or the greatest mass, is on one side, with a one-story garage on the other, then the largest number of plants should be used toward the

[Concluded on page 29.]

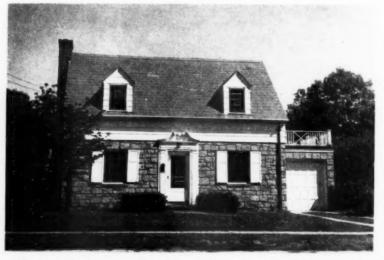


Illustration C—Draw an outline of an upright-branching tree, such as an American clm, and place on this illustration at the right of the garage, where the Pfitzer jumiper is now. Notice the effect with and without the tree.

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# Washington Firm Passes Fiftieth Year

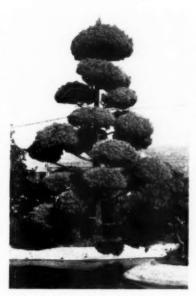
By Carol Wieting

Celebrating over fifty years of serving customers, the Bonnell Nurseries, Renton. Wash., owned and operated by Frank Bonnell, are among the oldest in the state from the standpoint of continuous operation under one management. Julius J. Bonnell, father of the present owner, died in 1939, having spent much of his life as a nurseryman and contributing to the advance of horticulture in the northwest.

The senior Mr. Bonnell started his business at Seattle in February, 1897. His first nursery consisted of eight acres in what is now one of the fine residential sections of the city, overlooking the University of Washington Arboretum. This area was later abandoned as a need for more land developed. In 1908 the firm bought fourteen acres at Kirkland, a small town near Seattle. This branch was operated until 1926. In response to the need for producing more camellias, rhododendrons and azaleas, heather and kindred plants, Mr. Bonnell acquired an additional twentyseven acres of peaty bottom land near Bellevue. Still further expansion came in 1922, when an additional 140 acres was purchased, near Renton. This area was immediately put into wholesale production of ornamental plants and was the headquarters, for many years, of the firm's production and landscape departments.

In 1909, J. J. Bonnell was in charge of landscaping for the Alaska-Yukon-Pacific exposition, which was held at Seattle. On this project Mr. Bonnell worked closely in conjunction with Fred Dawson and the Olmsted brothers, landscape architects for the exposition. Cooperating again with these same landscape architects in 1931, Mr. Bonnell directed the landscaping of the state capitol grounds, at Olympia. Between those years and until his death in 1939, J. J. Bonnell continued to operate and develop the nursery, assisting in many of the foremost landscape plantings of the northwest.

In the early war years, level land near Seattle was difficult to find. To procure an area for an airfield, the United States government found it necessary to purchase all of the Bonnell Nurseries' land at Renton. The entire stock was sold within a few months. Frank Bonnell, who was carrying on his father's work, secured a new piece of land about a mile distant. Almost all of the new



Tree Provides Nursery Trade-mark.

area now is in production. A portion of the 104 acres is in truck garden crops, and the remainder is in nursery stock of general types for wholesale and retail sales. Specialized lines include rhododendrons and azaleas. To feature these plants, Bonnell Nurseries this year held a rhododendron show, at which were shown most of the better American and European developments in rhododendrons and

azaleas. Mr. Bonnell plans to make this show an annual event.

Immediately after the end of the war in Europe, Frank Bonnell made an extensive tour of France, Belgium, England, Holland and Ireland, in order to investigate conditions at the leading horticultural institutions and nurseries there. He was credited with being the first American nurseryman to enter Europe after the war. He made a second trip to the Continent and England in 1947 to search for new and improved materials for garden ornamentation. Being an ardent photography enthusiast, Mr. Bonnell took large numbers of colored motion pictures on both of his trips. These pictures, which include new plant materials and gardens in Europe, have been shown to many nurserymen's groups and garden clubs.

A specimen of sculptured sawara, or plume cypress, Chamaecyparis pisifera squarrosa, is planted in a conspicuous place at the landscaped entrance to Bonnell Nurseries so that it catches the eye of customers entering and leaving. Because of its unusual nature, the plant makes an impression on the customers and has become a landmark as well as a trade-mark. A recent photograph of it is reproduced on this page. A sketch of the plant is used in the firm's advertising. Use of a plant form makes good relationship publicity.



Eugene Sandel, Superintendent of Bonnell Nurseries, in a Block of Imported Magnolias.

# Wages and Hours Law

#### RAISE MINIMUM WAGE.

Soon after the closing of the recent session of Congress, President Truman signed legislation raising from 40 cents to 75 cents per hour the minimum legal wage for workers

in interstate commerce.

The amended law will apply to more than 22,000,000 persons employed in interstate commerce or in production for interstate commerce. Most of these are already being paid the minimum rate or more. According to a statement of the President when he signed the legislation, the act will increase wages to about 1,500,000 workers.

The higher legal wage rate and the other provisions of the law go into effect in ninety days from the date of signing, about the end of January.

The amendment exempts some workers previously included by administrative edicts, after members of Congress accused the wage-hour chief of violating the intent of Congress in passing the original law. It is estimated that 200,000 workers covered by previous rulings will be exempt under the amendments, by the limitation of coverage to persons doing work "directly essential" to production for interstate commerce.

The procedure for recovering back wages was changed in the new act to permit the wage-hour administrator to bring suit for underpayments in behalf of workers upon their writ-ten request. The maximum recovery now to be allowed is the amount of underpayment. The old law permitted workers to sue for double the

amount of wages lost.

The 40-hour standard work week, with payment at time and one-half for additional hours, was retained in the new act. Congress gave encouragement to annual wage plans by permitting certain exemptions from overtime pay provisions in the case of employers paying a guaranteed annual wage.

#### WAGE-HOUR AMENDMENTS.

Amendments to the wage-hour law passed in the closing days of the recent Congress, to take effect ninety days from the date of enactment. do not much change the provisions affecting the nursery industry, with a few exceptions. "Any employee employed in agriculture" is still exempt from both the wage and hour provisions of the amended law, and agriculture is defined as previously.

No change was made in the provision exempting "any employee employed in a bona fide executive, administrative, professional or local retailing capacity, or in the capacity of outside salesman."

Clarifications in the law are outlined by R. P. White, executive secretary of the American Association of Nurserymen, as follows:

"Exempt from both the wage and hour provisions of the law is 'any employee employed in any retail or service establishment, more than fifty percentum of which establishment's annual dollar volume of sales of goods or services is made within the state in which the establishment is located.' Defined in the law for the first time, a retail or service establishment is 'an establishment seventyfive percentum of whose annual dollar volume of sales of goods or services (or both) is not for resale and is recognized as retail sales or services in the particular industry. This clari-fies the exemption of employees working in retail nursery outlets such as salesyards, as well as office employees in local retail landscape nurseries. The assumption had always been such employees as fit into this definition were exempt as a result of administrative ruling.

The wage-hour division had extended coverage of the law to employees of concerns which were rendering services on the grounds of manufacturing plants which were producing goods for interstate commerce. Under the bill as agreed to. an employee will not be covered unless he is shown to have a close and direct relationship to the actual pro-

duction. For example, employees of a local independent nursery concern whose duties include mowing the lawn around the factory of a customer within the state, engaged in producing goods for interstate commerce, will not be covered.

Three tests for qualifying as a retail and service establishment, all of whose employees are exempt, are: (1) Over fifty per cent of annual dollar sales must be made within the state in which the nursery is located: (2) seventy-five per cent of the annual dollar volume of sales must not be for resale; (3) seventy-five per cent of the annual dollar volume of sales of goods or services must be recognized in the trade as retail sales or services."

#### TRACTOR BUILT TO SUIT.

After pushing a walking tractor through his nursery for twenty years, R. H. Miller, of Miller's Nursery, Elyria, O., decided to mechanize the cultivating operation if he had to build a suitable machine himself.

What he wanted was a tractor that could be driven between the nursery rows, yet which would not tip over because of its narrow wheel base. He achieved this by cutting down the body of a regular Bolens Ride Master to a width of twenty-two inches and attaching the framework that is seen in the illustration. With this apparatus, he can ride between rows of evergreens with a 4-foot 8-inch clearance of the frame which supports the two outside wheels.

The machine has a 44-inch wheel base and an 86-inch tread. It is equipped with a telescoping-type adjustable cultivator, which requires no wrench for adjustment and which is adjusted from the driver's seat.



R. H. Miller, Proprietor, Miller's Nursery, and Two Grandsons, Jim and Bill.

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# Varieties of Osmanthus

By F. C. Galle and E. E. Nank

The species of osmanthus are attractive evergreen shrubs often mistaken in identity for the hollies. The leaves of osmanthus are opposite or occasionally subopposite, while holly leaves are alternately arranged on a stem.

The name osmanthus was applied because of the white fragrant flowers and is made up from osme, signifying perfume, and anthos, flower. The genus belongs to the olive family. The flowers are small, yellowishwhite and attractively fragrant, appearing in late spring or summer. The fruit is a bluish oval-shaped berry or drupe, but it is rarely seen on cultivated plants.

The osmanthus are generally considered southern plants, for none of them will endure extreme northern winters without protection. However, O. ilicifolius and O. americanus are occasionally found grown in protected areas north of the Ohio river in the general latitude of Philadelphia. O. fragrans is seldom grown successfully in the open north of Atlanta, Ga. Tennessee is about the northern limit for O. fortunei. These four species as represented on the leaf pattern chart are the most common in the trade of the ten or more known species.

The osmanthus should receive much the same treatment in cultivation as the hollies, planted in a well drained soil high in organic matter and set in sun or a partly shady situation.

O. americanus, devilwood osmanthus, is a native of our southern states and grows as a large shrub or small tree. The evergreen leaves are elliptic lanceolate, about two to four inches long, thick and glossy green. The fragrant flowers are borne in short panicles or nearly sessile, appearing in June. It is a good plant for the border and screen plantings, but not the best of the genus.

O. ilicifolius (aquifolium), holly osmanthus, is a native of Japan and is considered the best of the genus. The evergreen foliage resembles that of a holly, being oblong or oval, one to two inches long and glossy dark green. The leaves are stiffly armed with two to four teeth on each side. The sweet-scented flowers are borne in axillary clusters in late summer. The plant is an upright, compact, large shrub, working well as a specimen plant or corner plant in

foundation work. It also is used as a clipped hedge. It is a beautiful plant and should be more generally used.

O. ilicifolius myrtifolius, myrtle holly osmanthus, is a sport from the species, with smaller entire leaves. The plant is more dense and rounded than the species and can be used as an entrance or general foundation plant.

O. fortunei, Fortune osmanthus, is of hybrid origin of O. ilicifolius x O. fragrans, introduced from Japan. The holly-like evergreen leaves are oblong-ovate, two to four inches long, with six to ten spiny teeth on each side, and lustrous dark green. The fragrant axillary flowers appear in late spring. The plant is pyramidal in shape, reaching twelve feet in height. It should have wide use in the southern states as a specimen or foundation plant.

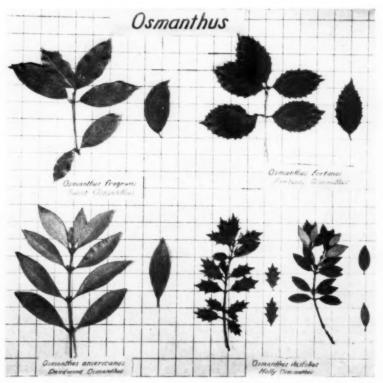
O. fragrans, sweet osmanthus, is a native of China and a popular evergreen shrub in the southern states. The glossy leaves are elliptic lanceolate, two to four inches long, with a sharp, fine-toothed margin. The flowers are yellowish-white, in clusters

appearing in June to August, and are pretty as well as sweet-scented. The plant has been commonly grown in the north as a greenhouse plant for its fragrant flowers. The plant is an attractive, upright-spreading shrub for borders and foundation work.

RECENTLY Rock Creek Nurseries, Rockville, Md., added a new office building and greenhouses attached. The new buildings are on Viers Mill road.

THE Saturday Evening Post recently told about the work that Jan de Graff has done in developing new types of lilies at Jan de Graff's Oregon Bulb Farm, Gresham, Ore.

OFFICES of Ilgenfritz Nurseries, Inc., Monroe, Mich., have been moved to South Telegraph road and Dunbar road, a short distance south of Monroe, where the firm's retail sales lot and wholesale evergreen sales lot are also located. The old office on East Front street has been abandoned. This move is the first step in consolidating the firm's operations at a single location.



Osmanthus fragrans. Osmanthus americanus

Osmanthus fortunei. Osmanthus ilicifolius.

# Rapid Spread of Oak Wilt in Midwest

By Noel B. Wysong

No longer can it be said truthfully that oaks are free of serious ailments, for, throughout the midwest, they are succumbing in alarming numbers to the oak wilt disease. Authoritative records of this disease date back to about 1929, according to Dr. A. J. Riker, professor of plant pathology. University of Wisconsin, Madison. In the years that followed discovery of the first wilting tree, dying oaks were reported with increasing frequency from various locations in the southern half of Wisconsin. Research studies to ascertain the agent that caused wilting and subsequent death of affected trees were begun by Dr. Riker and Dr. B. W. Henry, of the University of Wisconsin; Dr. C. S. Moses, Dr. C. Audrey Richards and others, of the United States Department of Agriculture forest products laboratory, and the Wisconsin con-servation department. Drought, adverse site conditions and various other factors were considered as possible causal agents, but they were rejected after thorough tests. Eventually, the studies of these scientists resulted in the discovery of a hitherto unknown fungus, Chalara quercina, so named by Dr. Henry in 1944, as the causal agent of the oak wilt disease.

The disease attracted little attention at first, for it appeared to spread slowly, and it was believed that it might be confined to a relatively small area. As recently as 1943 it was unknown outside the southern, southwestern and western counties of Wisconsin and neighboring counties in Minnesota, Iowa and Illinois. Then, through some peculiarity of circumstances or conditions, the disease began spreading and has gained momentum with each passing season. It now is known to be distributed widely throughout the southern half of Wisconsin, southeastern Minnesota, the eastern two-thirds of Iowa and northern Illinois, extending from Kankakee southwesterly toward St. Louis. It has been found in five locations along the Mississippi and Ohio rivers between St. Louis and Paducah, Ky. In Missouri, oak wilt has been found at St. Louis, Mexico and, more recently, in the Lake-of-the-Ozarks region. Late in the summer of 1949 it was discovered at Gary, Ind., and has been reported from several locations thirty to forty miles south of Gary. The cases at Gary and in adjacent territory represent an advance of nearly fifty miles from any tree

known to be infected in 1948. The rate of spread also appears to be increasing within a given locality. In the forest preserve district of Cook county, Illinois, an area of approximately 38,000 acres, in which oak is the dominant species, two cases of oak wilt were found in 1948; this year seventy-two infected trees were found.

It is probable that all, or at least most, of the North American species of oaks are susceptible to the disease. Dr. S. M. Dietz, of Iowa State College, Ames, has determined through field observation and greenhouse inoculation that the following



An Oak in Early Stages of Wilt Disease.

species definitely are susceptible: Quercus alba, white oak; Q. borealis, red oak; Q. ellipsoidalis, Hill's yellow oak; Q. imbricaria, shingle oak; Q. macrocarpa, bur oak; Q. marilandica, blackjack oak; Q. muhlenbergi, chinquapin oak; Q. palustris, pin oak; Q. velutina, black oak; Q. coccinea, scarlet oak; Q. falcata, southern red oak; Q. falcata pagodaefolia, swamp red oak; Q. gambeli, Gambel oak; Q. garryana, Oregon white oak; Q. hemisphaerica; Q. laevis, turkey oak; Q. laurifolia, laurel oak; Q. montana, chestnut oak; Q. nigra, water oak; Q. phellos, willow oak; Q. prinus, basket oak; Q. robur, English oak; Q. shumardi, Shumard oak; Q. shumardi texana, Texas red oak; Q. suber, cork oak, and Q. vir-

giniana maritima, live oak. No species of oak has been found to be immune to the wilt disease.

#### Symptoms of Wilt.

Symptoms of the disease differ on the two major groups of oaks, the red and the white, and may, perhaps, vary with the species, the time of year at which infection occurs and the geographical location. The first noticeable evidence of the disease is the occurrence of discoloration in the terminal foliage of one or several branches, usually near the top of the tree.

In trees of the red oak group, the leaves tend to curl or cup upward slightly and become dull in color, and, if held up against the light, the inner tissues have a splotchy, muddy or water-soaked appearance. Later, the leaves turn bronze or reddish-brown. These symptoms appear progressively downward through the tree. The leaves may fall at any stage; in the Chicago area it has been noted that most of the leaves drop while still in the muddy-green color phase, comparatively few remaining attached to the tree and passing through the later color stages. Defoliation may be complete within two or three weeks from the time the first symptoms appear. No leaves observed have been flaccid to the touch in any of the color stages; rather, they seemed to be abnormally stiff and hardened. On the first wilt-infected red oak found in 1949 in the Chicago area, early foliage was sparse and light green in color; the upper one-third of the tree was suggestive of chlorosis. Typical symptoms developed later in this tree, defoliation occurring early in the summer. Some of the leaves on the uppermost branches remained attached, though withered and blackened, after the tree was dead. The development of sparse, pale spring foliage in the upper branches may be characteristic of trees infected late in the preceding autumn, and, in any area where oak wilt is known to be present, trees developing such foliage are definitely suspects.

The leaves of infected trees in the white oak group become dull in appearance, and, though they may turn brown or bronze, usually they become light brown or tan. Later symptoms in this host group seem to vary with the location. In Wisconsin

[Continued on page 17.]

IN

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# SLATTON NURSERY CO., McMINNVILLE, TENN.

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	WIII	N N	74 W. H. 4 H. 4				
		Per	Per	CERCIS CANADENSIS	Per	Per	Per
ONE	-YEAR CHERRY (Sour)	100	1000	American Redhud	10	100	1000
11/1	6 to 1-in., well br	\$50.00	\$450.00	4 to 5 ft\$			2.12
9/16	to 11/16-in, well br.	45.00	400.00	3 to 4 ft., tr.,	4.00	35.00	242
7/16	to 9/16-in., well br.	40.00	350.00	2 to 3 ft., tr	3.00	25.00	
5/16	to 7/16-in., well br	30.00	250.00	CHINESE ELM			
Va	rieties: Montmorency, Early Richmond.			4 to 5 ft., tr.	3.00	25.00	
0.11	WELD GLIEDBY (C)			4 to 5 ft., tr. 2 to 3 ft., s.		3.50	\$30.00
ONE	-YEAR CHERRY (Sweet)	E0 00	450.00	18 to 24 ins., s.		2.00	18.00
11/1	6 to 1-in., partly br	45.00	400.00	12 to 18 ins., s		1.50	12.50
9/16	to 11/16-in., partly br	40.00	350.00	LIRIODENDRON TULIPIFERA			
7/10	to 9/16-in	30.00	250.00	Tulip Tree.			
5/10	to 7/16-in	30.00	230.00	5 to 6 ft	6.00	55.00	
V O	riety: Black Tartarian.			4 to 5 ft	5.50	50.00	
PLUI	M			HYDRANGEA PEEGEE			
	to 9/16-in	40.00			4.00	35.00	
	to 7/16-in			18 to 24 ins., tr.	3.50	30.00	
18 t	o 24 ins	20.00			3.00	25.00	
Va	rieties: Abundance, Burbank.			OAKLEAF HYDRANGEA			
					4.00	35.00	
	-YEAR PEACH	20.00			3.50	30.00	
11/1	6-in, and up.	30.00			3.00	25.00	
9/16	to 11/16-in.	25.00		The second secon	2.00	20.00	
7/16	to 9/16-in	20.00		ABELIA GRANDIFLORA	1 00	100.00	
	to 7/16-in			3 to 4 ft., B&B		100.00	
Z to	3 ft., under 5/16-in	10.00			7.00 7.50	65.00	
JUN	EBUD PEACH			2 to 3 ft., B&B	5.00	45.00	
	to 9/16-in	20.00		2 to 3 ft., bare root	3.00	8.00	70.00
	3 ft			6 to 8 ins., liners		7.00	60.00
	24 ins					7.00	00.00
Va	rieties: Elberta, J. H. Hale, Golden Jubilee	D,		LAGERSTROEMIA INDICA			
	Red Bird, Halehaven, Rochester, Belle of			Crape Myrtle, pink and red	4.00	20.00	
	Georgia.			2 to 3 ft., tr	4.00	30.00 25.00	
					3.00	25.00	
PEA				SPIRAEA VANHOUTTEI			
4 to	5 ft	40.00		2 to 3 ft		7.50	
3 to	4 #	35.00		18 to 24 ins		6.50	
	3 ft			12 to 18 ins. (hedging grade)		5.50	
	24 ins	20.00		ALTHAEA, bush form, pink and red.			
Va	rieties: Kieffer, Garber				2.50	20.00	
ONE	-YEAR APPLE			2 to 3 ft., tr	2.00	18.00	
	4 ft	30.00	* * *	PRIVET, Ligustrum Amurense			
2 to	3 ft	25.00	***	(Amur River North).			
Va	rieties: Double Red Delicious, Yellow Deli-			18 to 24 ins., 2 br			40.00
	cious, Stayman Winesap, Rome Beauty.			18 to 24 ins., 3 br			50.00
	Yellow T. P., Jonathan Red.			2 to 3 ft., 4 br			65.00
				CHINESE WISTARIA, purple.			
5100	Per	Per	Per	(Grafted from blooming wood)			
FIGS	4 ft \$ 3.50	100	1000	One-year.			
3 10	4 17 3 3.50			No. 1	3.50		
	3 ft 3.00	25.00		No. 2	2.50		
Va	riety: Brown Turkey.			ALMOND. Prunus Glandulosa			
WAL	NUTS. Juglans Nigra (Black Walnuts).			Double, pink-flowering Almond			
	4 ft	9.00		(own root).			
	3 ft	7.00			4.00	35.00	
	o 24 ins	5.00		18 to 24 ins., tr., well br.	3.00	25.00	
				12 to 18 ins., tr., well br.	2.50	20.00	
	M. NEWPORT. Purpleleaf.	05.00		LOMBARDY POPLAR			
Z to	3 ft	25.00		4 to 5 ft., 2-year, tr	4.00	30.00	
18 1	o 24 ins 2.50	20.00		WEIGELA FLORIBUNDA, red.			
PRII	NUS AMYGDALUS			WEIGELA HENDERSONI, dark pink.			
	d-flowering Peach.					10.00	
3 40	4 ft	35.00		2 to 3 ft		10.00	
2 10	3 ft	30.00		4 to 5 ft		40.00	
2 10	3.30	30.00		3 to 4 ft		30.00	
COR	NUS FLORIDA			2 to 3 ft		25.00	
	hite-flowering Dogwood			LIGUSTRUM OVALIFOLIUM			
	6 ft., well br 5.00	45.00		California Privet			
	5 ft., well br 4.50	40.00		2 to 3 ft			65.00
	llings.			18 to 24 ins		***	50.00
12 to	15 ins., grafting size	3.50	\$30.00	BERBERIS THUNBERGI ATROPURPUREA			30.00
	12 ins., liners		20.00	Red-leaved Barberry			
				15 to 18 ins		25.00	
	RNUS FLORIDA RUBRA			12 to 15 ins		20.00	
	d-flowering Dogwood.			DEUTZIA, PRIDE OF ROCHESTER		20.00	
	4 ft., well br	150.00				10.00	
2 10	3 ft., well br	125.00		2 to 3 ft	* * *	10.00	* * *



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and northern Iowa, it was observed. the discolored foliage remained attached in considerable abundance; in the neighborhood of Chicago, however, defoliation has occurred nearly as rapidly and completely as in trees of the red oak group. In articles concerning oak wilt in Iowa and Wisconsin, it has been stated that the disease progresses more slowly in white oaks than in red oaks and that infected trees in the red oak group may die within thirty to sixty days after the first symptoms appear, while white oaks may live for several years, dying back slowly and progressively from the top downward. Field observations in the Chicago area during the past two years indicate that bur oaks, Q. macrocarpa, may die there almost as quickly as infected red oaks.

External symptoms, wilting and discoloration of leaves followed by defoliation, may appear at any time during the spring and summer. In the Chicago area, the peak of the disease, in respect to visible symptoms, seems to occur about the middle of August. In Iowa and Wisconsin, wilting and discoloration are said to occur in greatest abundance during July. The weather probably is an influencing factor, for the greatest amount of wilt occurs during or immediately after a long, hot, dry period. As the fall season approaches and foliage takes on the usual autumn coloration, it becomes difficult, if not impossible, to distinguish normal trees from those infected with wilt. During the summer, however, infected trees, with their tan to bronzecolored leaves, are strikingly noticeable. Oddly, the bark of trees killed by the wilt seems to loosen and slough off much more quickly than does that of oaks dead from other callses

In both the red and white oaks, longitudinal brown or blackish streaks often are found in the outer layers of sapwood of wilt-infected trees. The fact that no streaks are present cannot be accepted as proof, however, that the tree is free of the disease, for the fungus has been isolated from branch samples in which there was no sign of streaking. The time that elapses between infection and the appearance of the first symptoms has not been definitely established; it may vary with the time of year at which infection occurs, the point of infection, species, individual trees, or there may be other influencing factors as yet unknown. In inoculation experiments on woodland trees, conducted by Drs. Riker and Henry (Phytopathology 37: 735-743, 1947), the time between inoculation

[Continued on page 55.]





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# Plant Notes Here and There

By C. W. Wood

Notes made over the years on the small sea lavenders, statice, or limonium, according to your preference, have been assembled and are here presented in condensed form at the request of an Alabama reader. They have been condensed because the minute details of all the kinds would fill too long a space and similarity of many kinds would only make for repetition.

This similarity carries along all through the perennial kinds. Their differences, from the garden standpoint, are mostly in the size of rosette, height of flowering stem, size of inflorescence and season of bloom. All these differences are good news for the gardener, for they make it possible for him to have these flowers of grace during the entire summer and give him various kinds of sea lavenders suitable for most garden plantings, so long as the plants' needs can be supplied. These plants require little more than a sunny situation in light soil and, in the north, protection from cold. Coming mostly from southern Europe, the small kinds are rather tender so far north as here in northern Michigan, and we found that they suffered badly after snow left in early spring.

The smallest of these sea lavenders that I know is S. minuta, a plant of tiny rosettes and typical statice flowering stems seldom exceeding three inches in height. A neighbor who served in Europe during the war tells me that he saw literally acres of this statice in southern France, and Correvon records that it "adorns the rocks washed by the waves and forms dense shrubby little cushions of grayish-green foliage." That would make a wonderful sight when S. minuta is carrying its little lilac

umbrellas.

Only a little taller than S. minuta, perhaps not over an inch taller, is S. cosyrensis from Corsica. Of it I can say little, for it did not prove hardy here. However, it does have a briefer flowering period than S. minuta, covering about the month of July, and the flowers are somewhat paler.

A little whitish-flowered one that I had under name of S. reticulata, a name for which I find no authority at the moment, was unusual in its color. It grew to be about eight inches tall, according to my notes, and, although they do not say so, I think it comes from the coast of western Europe.

It was quite hardy, as were two others from the same coast, S. lychnidifolia and S. auriculaefolia, both on the lavender side, though the red bracts of the former set it aside as a garden ornament. These two grow to be six or eight inches tall and bloom from July onward.

There are a number of other kinds under a foot in height, but the foregoing represent the ones usually found in commerce. Unlike the tall ones, these dwarfs never become floppy in windy, rainy weather, when the others tend to become top-heavy. Where hardy, there are few better rock garden plants to relieve the monotony of the usual mat and cushion plantings. Statice may be grown from seeds.

#### Clintonias.

Most of the clintonias, a genus of American lily cousins which honors DeWitt Clinton, a famous New York governor of early days, are choice plants that require more than the ordinary amount of care, and thereby no doubt hangs the tale of their neg-

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2 to 4 ins.

Hex cremata (From convexa seeds), 2-yr, S.,

2 to 5 ins.

These produce very satisfactory hardy bush-shaped specimens, somewhat variable in character.

llex crenata convexa, 2-yr., T., 6 to 10 ins. 2-yr., T., 10 to 15 in

llex crenata rotundifolia,

varieties and grades.

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lect. But to the gardener who is looking for delicate beauty, they are worth all the care needed to keep them contented. Much of the dis-satisfaction with these plants which is reported from time to time in amateur journals is to be accounted for, I suspect, by the selection of the wrong species for the particular spot the plant is to be given in the garden. If experience here is a sound basis for judgment, it is safe to say that there is a kind that will give good results in all except the hottest parts of the country. If a gardener in the south bought Clintonia borealis, he would be quite likely to fail with that northerner, because it is a creature of the cold moist woods of the boreal and subboreal regions; if his choice were C. umbellulata (not C. umbellata, as usually spelled in lists), a species with a range from New York to Georgia, or C. andrewsiana, a native of the redwood forests of California, his

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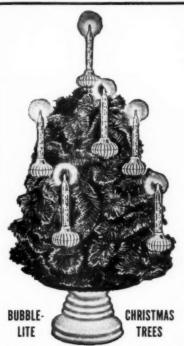
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chances for success would be much brighter.

The several species differ more in flower and fruit than they do in foliage, identification by the last character being rather difficult. Of our two easterners, C. borealis is much the showier, with nodding, bellshaped, creamy-yellow flowers, followed by conspicuous blue beads, which are the glory of the plant. The other, C. umbellulata, has white flowers and black fruits. The showiest of the lot is C. andrewsiana, with rosepink to reddish-pink flowers and showy blue fruits. C. uniflora, which grows naturally from Alaska southward into the United States, with usually solitary, white flowers, is less showy than the others and proved quite difficult to grow here; in fact, too difficult to compensate for its lack of beauty.

All the clintonias may be propagated by division and from seeds, the latter not being difficult, but rather slow. Perhaps it would be too slow in these days of hurry-up and quick turnovers. Seeds should be planted as soon as ripe, preferably in a shady bed made of sand, screened leaf mold and finely chopped sphagnum or acid peat. Seedlings grow slowly at first, but if one takes care to see that they do not suffer from heat or dry weather, they should come along readily after becoming established.

#### Aconitum Fischeri Wilsoni.

The combination of a letter asking for a brief note on aconitum culture and a visit in September to a garden where much was made of Aconitum fischeri wilsoni prompts this note.

At the outset, it may be said that this monkshood, an introduction of the late Ernest H. Wilson, who brought it from China on one of his trips to that land, is one of September's choicest offerings. Although it has been in commerce for years, A. fischeri wilsoni is seldom seen in gardens or nurseries; so it should be a good item for specialists as well as for the neighborhood grower, especially if he grows on a heavy soil. In a rich, heavy soil (with the accent on heavy, for no monkshood that I know does well in a light sand), this one should grow from five to seven feet tall, making a stately object in any planting, and should produce an immense number of light blue flowers during September.

The culture and propagation of monkshoods are not always easy, facts which add much zest and a good profit to the successful cultivator. They may be grown from seeds by the careful. Weeds in the seedbed are often the cause of heavy losses, for

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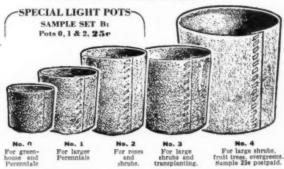
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500 Honeysuckle, Korolkowi, 2 to 3 ft.

2000 Jasminum Nudiflorum, 18 to 24 ins.

1000 Lilac, Chas. Joly, 18 to 24 ins. and 2 to 3 ft.

1000 Lilac, Chas. X, 18 to 24 ins. and 2 to 3 ft.

Spiraea Callosa Alba, 12 to 18 ins. 1000

500 Viburnum Tomentosum Plicatum, 18 to 24 ins.

5000 Weigela, Variegated, 18 to 24 ins. 5000 Euonymus Radicans, 2-yr., No. 1

3000 Teucrium Chamaedrys, 6 to 9 ins.

7500 Barberry, Red-leaved, 9 to 12 ins., 2-yr. trans.

1000 Anemone Alice (field-grown) 1000 Anemone Alba (field-grown)

1000 Anemone Hupehensis (field-grown)

1000 Anemone September Charm (field-grown)

2000 Aster Violetta (field-grown)

5000 Iberis Sempervirens

1000 Veteran Peach, 9/16-in.

500 Veteran Peach, 7/16-in.

1000 Veteran Peach, 5/16-in.

#### ROSES WANTED

Golden Salmon Rose, No. 1 10,000

5000 Gloria Mundi, No. 1

5000 Pinocchio, No. 1

5000 World's Fair, No. 1

3000 Baby Chateau, No. 1

1000 Margaret McGredy, No. 1

1000 McGredy's Yellow, No. 1

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AVOID HEELYARD HAVOC.

TYLER, TEXAS Wholesale Catalog. GET YOURS FIELD-FRESH AND FREEZE-FREE.

to pull weeds after the monkshood seeds have germinated usually means the death of the seedlings. If one has a weedless frame and the plants have sufficient room to remain in the seedbed for a full year, there should be little trouble in seedage.

Vegetative reproduction is generally to be preferred if a greenhouse is available. In that case, healthy corms may be potted up in late autumn, left in a coldframe until after heavy freezing weather and then taken into a cool house of 25 to 30 degrees, where the temperature is gradually increased until 45 degrees is reached in early March. New corms will have developed by planting-out time in April or May, depending upon one's climate and the weather, and these should be broken off and set in the field.

#### A Hardy Begonia.

A bit of correspondence with a begonia specialist and a little delving into the literature on the subject of begonias have brought out some notes on Begonia evansiana, which it may be profitable to include here.

This begonia is not new, as some of the catalogs continue to state, having been introduced into cultivation in Europe in the early part of the nineteenth century. The first reference I found in my cursory examination of the literature shows that the plant was being cultivated in England at Kew Gardens in 1804. James Abercrombie, in his "Practical Gar-dener" in 1834, speaks of it as being one of the commoner greenhouse plants of that time, saying that "the stem dies down in autumn, having produced small bulbs at the joints, from which plants are produced the succeeding spring. There is a bulb at the root, which will send up a new stem.

A little later Mrs. Loudon, in her "Ladies' Companion to the Flower Garden," speaks of it, though she calls it B. discolor, as being the commonest kind at that time, which to be specific was in the 1840's. "B. discolor," she wrote, "which has the leaves beautifully veined with crim-son underneath, is the commonest kind, and it thrives in the greenhouse or in a room, throwing out numerous suckers, each with a tuberous root which only requires separating from the parent and potting to become a fresh plant. The only objection to the culture of this plant is that it is likely to be infested with red spider. When planted out in summer, it continues to produce flowers for several months." It need only be added that the flowers are large, pale pink or flesh-colored, on plants to two feet in

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## FINISHED STOCK FOR FALL, 1949

American Arborvitae (Broad pyramids) 2 to 3 ft., B&B 3 to 4 ft., B&B		Each
	******	. 4.00
Azalea mollis 12 to 15 ins., B&B 15 to 18 ins., B&B	**********	. 1.25
Hemlock (Broadly she	ared)	
2 to 3 ft., B&B		2.00
Leucothoe catesbael.		
12 to 15 ins., B&B		. 1.25
Mugho Pine, 24 to 36	ins., B&B.	. 2.50
Pieris Japonica		
12 to 15 ins., B&B	********	. 1.25
15 to 18 ins., B&B	*********	1.60
18 to 21 ins., B&B	********	. 1.90
Rhododendron Hybrids		
12 to 15 ins., B&B		1.75
15 to 18 ins., B&B		
and the same transfer		. 4100
Taxus capitata		2.00
24 to 30 ins., B&B.,		
30 to 36 ins., B&B		4.00
Order not less than boxing; truck or car- beetle certification pro- order.	loads only.	Jap.
Send for our 1949-	1950 catalog	
were sor but keep		1.00

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height. Many more quotations could be given here, some of them more learned than those from Mr. Ambercrombie and Mrs. Loudon, but this is sufficient for our purpose and sets the stage for the introduction of a worthy plant.

The catalogs are nearer right. though, when they call B. evansiana hardy. In fact, they are more nearly correct than most of the literature. which leaves the impression that the plant is capable of standing only a few degrees of frost. "Hortus" merely states that it "stands some frost." Coming from China and Japan, this plant shows some difference in the hardiness of material from the different parts of its range, and that probably accounts for some of the reference to its hardiness or its lack of hardiness. It proved not fully hardy here in a climate where 30 degrees below zero is not unheard of, but it might be fully hardy if one could find an especially hardy strain and give it good protection. On the other hand. I remember a planting about fifteen years ago in the botanical garden at Butler University, Indianapolis, Ind., which the director said had withstood two periods of 10 degrees below zero without protection except from the fallen leaves of near-by trees. The difference of opinion regarding the plant's hardiness referred to previously will perhaps be more readily reconciled when we remember that its natural range extends from Java into Japan. Material from the former island probably would be unable to

[Continued on page 61.]

# LINING-OUT STOCK — FALL, 1949-SPRING, 1950— Heavy liners for held beds of 1, 2 and 3-year plantings. X indicates times

rampilanted, 25 of a kind at 100 rate; 200 of a kind at 100 rate; 100 each virtum in trampilants, 5 varieties at the 1000 rate. Shipped express or parcel post. 7 Clash with order, Japanese beetle certification provided upon request. Write a latest litting of numery decks. Ready 1000; 1000 rates. Sci. 1000 rates. 1000	ariety, ferms:
latest listing of nursery stock. Ready now. 100 rate	1000 rate
Azalea mollis, 2 to 5 ins., X, 1-yr. (Spring)	each 80.12
Azalea mollis, 6 to 12 ins., X, 2-yr	.22
Azalea mollis, 9 to 12 ins., XX, 3-yr. branched	.55
Azalea mollis, 12 to 18 ins., XXX, 4-yr., branched (B&B add 25c) 1.25 Azalea kaempferi hyb., 4 to 6 ins., XX, 2-yr	**
Azalea kaempferi hyb., 6 to 9 ins., XX, 3-yr	* *
Buxus sempervirens, 4 to 8 ins., XX, 2-yr	1.
Chamaecyparis laws allumi, X, 6 to 10 ins., 1-yr	.08
Chamaecyparis filifera aurea, 4 to 8 ins., X, 1-yr	.18
Chamaecyparis filifera aurea, 6 to 10 ins., XX, 2-yr	.12
Chamaeeyparis pisifera aurea, 9 to 12 ins., XX, 2-yr	.18
Cytisus purpureus (Scotch Broom), X, 2-yr	.12
Euonymus carrierei, 6 to 10 ins., XX, 2-yr	.12
Euonymus coloratus, 4 to 8 ins., X, 1-yr	.16
Euonymus fortunei erectus, 4 to 8 ins., X, 1-yr	.08
Euonymus patens, 8 to 12 ins., XX, 2-yr	* *
Hex crenata, 3 to 6 ins., X, 1-yr	.11
Ilex crenata, 6 to 9 ins., XX, 2-yr	.16
Ilex crenata bullata, 8 to 8 ins., XX, 2-yr	* *
Ilex glabra, 4 to 6 ins., X	.16
Ilex glabra, 8 to 10 ins., XX, 3-yr	**
Ilex rotundifolia, 3 to 5 ins., X, 1-yr	.12
Ilex rotundifolia, 6 to 8 ins., XX, 2-yr	* *
Juniper, Andorra, 6 to 9 ins., X, 1-yr	.15
Juniper, Andorra, 9 to 12 ins., XX, 2-yr	.28
Juniper, Irish, 8 to 12 ins., XX, 2-yr	.16
Juniper, Stricta, 5 to 8 ins., XX, 2-yr	**
Juniperus chinensis pfitzeriana, 8 to 12 ins., XX, 2-yr	**
Juniperus glauca hetzi, 6 to 8 ins., X, 1-yr	.15
Juniperus glauca hetzi, 8 to 12 ins., XX, 2-yr	**
Juniperus horizontalis glauca, 6 to 8 ins., X, 1-yr	.18
Juniperus virginiana, 8 to 12 ins., sdlg., 2-yr	.06
Leucothoe catesbael, 4 to 6 ins., X, 1-yr	.08
Leucothoe catesbael, 6 to 12 ins., XX, 2-yr	.03
Pieris floribunda, 6 to 10 ins., XX, 3-yr	**
Pieris Japonica, 6 to 8 ins., XX, 3-yr.	**
Pieris Japonica, 8 to 12 ins., XXX, 3-yr	
Pieris mariana, 4 to 8 ins., X, 1-yr	
Pinus montana mugo, 2 to 5 ins., sdig. 2-yr	.04
Pyracantha lalandi, 8 to 12 ins., XX, 2-yr	.06
Quercus palustris, 8 to 15 ins., sdig., 1-yr.	.10
Rhododendron hybrid, 9 to 12 ins., XXX, 4-yr	.55
Rhododendron hybrid, 15 to 18 ins. (B&B add 25e)	.12
Taxus browni, 6 to 8 ins. X, 1-yr	.16
Taxus capitata, 4 to 6 ins., XX, 2-yr	.18
Taxus capitata, 8 to 12 ins., XX, 3-yr	.ii
Taxus cuspidata, 6 to 9 ins., X, 1-yr	.12
Taxus cuspidata, 8 to 10 ins., XX, 3-yr	.10
Taxus media hatfieldi, 3 to 6 ins., X, 1-yr	.12
Taxus media hicksi, 6 to 8 ins., X, 1-yr	.16
Thuja occ. eliwangeriana, 6 to 9 ins., XX, 2-yr	
Thuis occ. globosa, 6 to 8 ins., XX, 2-yr	.16
Thuja occ. Hill's Golden, 4 to 6 ins., X, 1-yr	.16
Thuja occ. pyramidalis, 4 to 6 ins. X, 1-yr	.13
Thuja orientalis, 4 to 8 ins., sdlg., 1-yr	.03
Tsuga canadensis, 9 to 12 ins., XX, 4-yr	.50
Viburnum opulus nanum, 4 to 8 ins., XX, 3-yr	.18

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HARMONY, PA.

# Honey Locust as a Shade and Lawn Tree

By F. L. O'Rourke

Interest in the selection of desirable shade and lawn trees has increased rapidly during the past few years. The ravages of the Dutch elm disease and phloem necrosis on the American elm and the threat of the oak wilt menace to our native oaks have influenced many plantsmen to seek a suitable substitute which may be relatively immune to serious diseases. Observations throughout many sections of the United States and Canada indicate the desirability of the honey locust, Gleditsia triacanthos, as a tree possessing many of the qualifications deemed essential for shade and lawn purposes.

Approximately twelve species of gleditsia have been described. Three are native to North America, one to South America, one to the Caspian sea area and the others to China and Japan. Several of the Asiatic species have been planted in a limited way in the United States, but, as yet, there is little indication that any of these will prove to be horticulturally important.

The water, or swamp, locust. Gleditsia aquatica, is found in its native range throughout the southern states, which extends roughly from South Carolina to Texas. It is little used as an ornamental, being more straggly in appearance than its northern relative, Gleditsia triacanthos. It may possess more hardiness than its southern range would indicate, for there is a fairly presentable mature tree in Highland park, Rochester, N. Y.

Another North American species, the Texas honey locust, Gleditsia texana, is supposedly a hybrid between Gleditsia triacanthos and Gleditsia aquatica, It is a relatively fast-growing tree and endures a hot, dry climate well. It has been suggested that this species possesses "hybrid vigor." It is probably worthy of trial as a street tree in some sections of the southwest.

The common northern honey locust, Gleditsia triacanthos, has a native range throughout the entire midwest, extending from the Appalachians to the Great Plains and from Ontario to Texas. It has been widely

Address by F. L. O'Rourke, assistant professor of horticulture at Michigan State College, East Lansing, Mich., at the annual meeting of the American Institute of Park Executives, at Detroit, Mich., September 21.

planted throughout most of the United States and apparently is apparently is growing satisfactorily from the Atlantic to the Rockies. It is extremely tolerant to a wide pH range and thrives on a variety of soils from poorly aerated, moist sites in portions of the midwest to the droughty conditions of western Kansas and Nebraska. Hardiness is apparently correlated with early maturity of the currentyear shoots. The more northern strains cease growth fairly early and overwinter well in regions where the winter temperature drops to 30 degrees below zero. Fahrenheit, or lower.

Under conditions of high fertility and adequate moisture, the honey locust is a rapid-growing tree and may attain a height similar to the undesirable Chinese elms and silver maples in the same period of time. The ultimate height may be as great as 140 feet when it reaches its maximum size at about 120 years of age. It is long-lived. A tree recently removed at

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W. - T. Smith Corporation Telephone 2689 GENEVA. N. Y. Dayton, O., showed 327 annual

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The long, multiple-pointed thorns are outgrowths from true buds developed in the stem and branches. As the tree matures, the occurrence of the thorns on the new growth decreases until finally the upward and outward portions of the branches are thornless. When budwood or scion wood is taken from these thornless regions, the resulting budded or grafted trees will remain forever thornless, and buds taken in turn from these trees will continue to transmit the thornless condition.

Sex may also be controlled, in part, by propagation. Individual honey locust trees vary in the type and position of the flowers they bear. Some have perfect flowers, some staminate

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Taxus Cuspidata Nana True	dwarf form.		
3-yr., T, cutback 35.0	300.00	Taxus Capitata From terminal lead	ers.
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5-yr., TT	450.00	2-yr., T 30.00	250.00
Taxus Hatfieldi		4-yr., TT 45.00	400.00
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3-yr., T		Thuja Nigra	
4-yr., TT 40.0		2-yr., T	250.00
We cannot fill orders for less t	han one hundr	ed of a size and variety 250 liners furnished	d at the

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#### LEGHORN'S EVERGREEN NURSERIES

GEER STREET

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and pistillate flowers on the same tree, some staminate only, and some have all three kinds. There is a tendency, however, for certain branches to bear only one type of flower. When budwood is taken from such branches, the resulting trees will bear only that type of bloom.

Propagation of selected varieties is mainly by budding on thornless root-stocks. In fertile soil a growth of seven or eight feet may be obtained the first year after cutting back to the inserted bud. These 1-year whips, while relatively small in trunk diameter, are perfectly straight-stemmed and suitable for transplanting to their permanent location.

Trees produced from seeds may be variable in form and other characteristics. For street and lawn purposes it seems desirable to plant named varieties of known habit and sex.

Lawn grasses grow well beneath the light shade of honey locust trees. Apparently there is just enough shade to discourage perennial weeds and to cool the ground surface so that grasses thrive better than if exposed to full sun. Experiments at the Ohio station, with pasture grasses growing beneath black walnuts and black locusts, have shown not only increased growth, but also a higher nutrient content as compared to simi-

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limited, so send your order now.

Arborvitae, Chinese Compacta
Here is some very nice seedling stock that is used for potting and grafting other
evergreens on their roots as well as for growing them into finished evergreens.

2 to 6 ins. sdlgs.

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6 to 8 ins. sdlgs.

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Juniperus Hibernica, Irish Juniper (Upright Juniper)

se are nice one-year field-grown to 6 ins., L.O., field-grown to 8 ins., L.O., field-grown to 12 ins., L.O., field-grown

Juniperus Communis, English Juniper (Upright Juniper)

ese were grown in open field und to 6 ins., L.O., field-grown... to 8 ins., L.O., field-grown... to 12 ins., L.O., field-grown...  $15.00 \\ 20.00$ 

| Juniperus Horizontalis Plumosa, Andorra Juniper | (Spreading Juniper) | 4 to 6 ins., L.O., field-grown | 1.50 | 10.00 | ... | 1.50 | 15.00 | ... | 1.50 | 15.00 | ... | 1.50 | 15.00 | ... | 1.50 | 15.00 | ... | 1.50 | 15.00 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... |

Juniperus Virginiana, Red Cedar
Used mostly as understock for grafting but often planted as a
4 to 6 ins., transplanted.
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12 to 15 ins., transplanted.
Special grafting size, 4-in, and up. 4.00 5.00 6.00 6.00

| Tsuga Canadensis, Canadian Hemlock | We have a nice lot of 2-year-old transplants that are growing under the lath house. These liners are the best that we have seen in several years. | 3 to 6 ins. transplants | 2.00 | 15.00 | 125.00 | 6 to 8 ins. transplants | 2.50 | 20.00 | 175.00 | 8 to 12 ins. transplants | 3.00 | 25.00 | 275.00 | 12 to 15 ins. transplants | 4.00 | 30.00 | 275.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00



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Viburnum dentatum, understocks. Viburnum opulus, 2-yr. transplants, 6 to 12 ins. Myrica cerifera, 2-yr. transplants, 3 to 6 ins. Write for samples and prices.

THE RHODE ISLAND NURSERIES

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#### TAXUS MEDIA HALLORAN

The past winter proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

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Young trees of the honey locust have a shallow and fairly fibrous root system which permits easy transplanting. Formerly, it was thought that the roots were nodule-bearing and fixed atmospheric nitrogen. This theory has since been disproved.

The species thrives under a variety of atmospheric conditions in regions of both low and high humidity. It is extremely tolerant of smoke, soot and the general conditions often found within large cities.

The open framework and resilient structure of the honey locust seems to be highly resistant to wind, ice and storm damage. A broken honey locust tree is rare indeed. Cavities seem to be practically nonexistent. Callusing and bark regeneration proceed rapidly after wounding. Tree repair is at a minimum with this species. The pruning needs are light, and bracing and cabling are seldom needed. Lightning rarely strikes individuals of this species.

Insects have been of minor importance in the past. The honey locust scale and the cottony maple scale are found, occasionally, on trunk and branches. They are easily controlled by the usual dormant sprays. The most serious pest is apparently the mimosa webworm, which seems to attack honey locust even more readily than its other host, the famed mimosa tree, Albizzia julibrissin, of our southern states. This Australian insect was first noted near Washington, D. C., in 1940 and now is distributed throughout large portions of Maryland and Virginia. Damage consists f.

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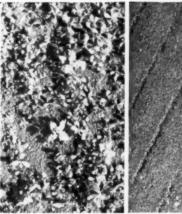
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# Here's How to Cut Costly Hand Weeding and Control Soil Pests in <u>One</u> Operation

# DOWFUME MG2

FOR FUMIGATING PLANTING SOIL

Dowfume MC-2 makes the difference! At the right, violas flourish in soil treated with Dowfume MC-2 before planting. There's no weed problem here—no damage from root-attacking parasites. At the left, planting was done in untreated soil at the same time.





Dowfume MC-2 kills most of the weed seeds present in the soil—also controls soil insects. At higher dosages, it controls many plant diseases. This new Methyl Bromide-Chloropicrin mixture is easy to apply—does a thorough job throughout the tilled layer of soil—aerates rapidly.



#### SPECIAL TRIAL OFFER!

A Trial Kit brings you four pounds of Dowfume MC-2—sufficient to treat 400 square feet of soil for weed seed and soil insect control, or 100 square feet for plant disease control, plus the simple equipment and complete directions for its use. This offer expires Jan. 1, 1950. Send ten dollars (check or money order) to: Fumigant Division—Dept. 836, The Dow Chemical Company, Midland, Michigan.

THE DOW CHEMICAL COMPANY
MIDLAND . MICHIGAN



of the webbing together of the leaves by a small caterpillar, which subsequently feeds on the tissues. Near defoliation often results, The insect may be controlled with DDT, but it will probably require more than one spray per season.

In the southern states, a leaf spot disease is fairly common, but apparently not severe enough to warrant control measures. A canker and twig fungus occasionally kills back some of the smaller branches. No control methods have been practiced. A reported brooming disease is apparently of little or no practical significance.

The honey locust, like many other tree species, is somewhat heterozygous, and individual trees incline to differ with each other in growth and fruiting habits. There are also indications of geographical races, as witnessed by the shape of the seed pods produced in different sections. In the south, the prevalent pod is of the "fatback" type. being rather broad transversely, as contrasted with the more narrow "razorback" pod of the northern states.

Several selections of aberrant types have been made within the species, four of which are listed as varieties in Rehder's Manual. Of these Gleditsia triacanthos inermis is thornless in all its growth phases and of more

#### LINING-OUT STOCK

	Per 100	Per 1000
Cornus florida, 1-yr. sdlgs., 10 to 18 ins.	5.00	\$ 30.00
Cotoneaster divaricata, 1-yr. sdlgs., 6 to 12 ins.	10.00	75.00
Daphne mezereum, 2-yr. sdlgs., 4 to 6 ins	12.00	
Daphne mezereum album, 2-yr, sdlgs., 6 to 10 ins	12.00	
Euonymus vegetus, 1-yr. tr., 4 to 8 ins	12.50	100.00
Euonymus vegetus, 1-yr, tr., 6 to 10 ins.	17.50	150.00
Forsythia Spring Glory, new, 1-yr, tr., 12 to 18 ins.	16.00	150.00
Japanese Maple, red and green, mixed, I-yr. sdlgs.	8.00	60.00
Juniperus meyeri, I-yr. tr., 5 to 8 ins.	30.00	250.00
Juniperus stricta (Greek), 2-yr. tr., 8 to 10 ins.	50.00	450.00
Lilac, Belle de Nancy, 2-yr. grafts, 15 to 24 ins	40.00	
Lilac, Charles Joly, 2-yr. grafts, 15 to 24 ins.	40.00	
Lilac, Lucie Baltet, 2-yr. grafts, 15 to 24 ins.	40.00	
Magnolia lennei, 2-yr. grafts, 12 to 18 ins	150.00	
Magnolia soulangeana, I-yr, tr., cuttings	50.00	
Magnolia soulangeana, 2-yr. tr., cuttings.	75.00	
Spruce, Koster's Blue, 1-yr. grafts	100.00	****
	30.00	250.00
Taxus brevifolia, 2-yr. tr., 6 to 9 ins	125.00	1000.00
Taxus capitata (from Jap. Seed), 7-yr., twice tr., 12 to 15 ins		200.00
Taxus cuspidata (spreading), 2-yr. tr	25.00	
Taxus cuspidata (spreading), 4-yr., twice tr.	55.00	500.00
Taxus hatfieldi, 3-yr. tr., 12 to 18 ins	35.00	300.00
Thuje pyremidalis, 1-yr, grafts, 12 to 15 ins	50.00	450.00

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# **EVERGREEN LINERS**

Juniperus Hibernica, Irish Juniper (Upright Juniper)

ese are nice one-year field-gro to 6 ins., L.O., field-grown to 8 ins., L.O., field-grown to 12 ins., L.O., field-grown

Juniperus Communis, English Juniper (Upright Juniper)
These were grown in open field under irrigation.

se were grown in open field und to 6 lns., L.O., field-grown... to 8 ins., L.O., field-grown... to 12 ins., L.O., field-grown...  $15.00 \\ 20.00$ | Juniperus Horizontalis Plumosa, Andorra Juniper | (Spreading Juniper) | 4 to 6 ins., L.O., field-grown. | 1.50 | 10.00 | ... | 1.50 | 15.00 | ... | 1.50 | 15.00 | ... | 1.50 | 15.00 | ... | 1.50 | 15.00 | ... | 1.50 | 15.00 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... | 1.50 | ... |

Juniperus Virginiana, Red Cedar
Used mostly as understock for grafting but often planted as a
4 to 6 ins, transplanted.
6 to 12 ins, transplanted.
12 to 15 ins, transplanted.
Special grafting size, 34-in, and up.

| Suga Canadensis, Canadian Hemlock | We have a nice lot of 2-year-old transplants that are growing under house. These liners are the best that we have seen in several years.

3 to 6 ins. transplants	2,00	15.00
6 to 8 ins. transplants	2,50	20.00
8 to 12 ins. transplants	3,00	25.00
12 to 15 ins. transplants	4,00	30.00
13 to 15 ins. transplants	4,00	30.00
14 to 15 ins. transplants	4,00	30.00
15 to 15 ins. transplants	4,00	30.00
16 to 17 to 18 t under the lath		

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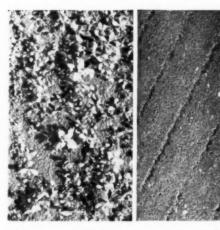
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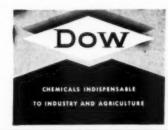
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Daphne mezereum album, 2-yr. sdlgs., 6 to 10 ins	12.00	
Euonymus vegetus, 1-yr. tr., 4 to 8 ins	12.50	
Euonymus vegetus, 1-yr. tr., 6 to 10 ins	17.50	
Forsythia Spring Glory, new, 1-yr, tr., 12 to 18 ins.	16.00	150.00
Japanese Maple, red and green, mixed, I-yr, sdlgs	8.00	60.00
Juniperus meyeri, I-yr. tr., 5 to 8 ins.	30.00	250.00
Juniperus stricta (Greek), 2-yr. fr., 8 to 10 ins	50.00	450.00
Lilac, Belle de Nancy, 2-yr, grafts, 15 to 24 ins	40.00	
Lilac, Charles Joly, 2-yr. grafts, 15 to 24 ins	40.00	
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Magnolia lennei, 2-yr. grafts, 12 to 18 ins	150.00	
Magnolia soulangeana, I-yr. tr., cuttings	50.00	
Magnolia soulangeana, 2-yr. tr., cuttings, 12 to 18 ins	75.00	
Spruce, Koster's Blue, I-yr. grafts	100.00	
Taxus brevifolia, 2-yr, tr., 6 to 9 ins	30.00	250.00
Taxus capitata (from Jap. Seed), 7-yr., twice tr., 12 to 15 ins	125.00	1000.00
Taxus cuspidata (spreading), 2-yr, tr	25.00	200.00
Taxus cuspidata (spreading), 4-yr., twice tr	55.00	500.00
Taxus hatfieldi, 3-yr. tr., 12 to 18 ins	35.00	300.00
Thuja pyramidalis, 1-yr. grafts, 12 to 15 ins.	50.00	450.00

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	Each	Per 10
Ash, American White, 5 to 8 ft	\$ 2.00	\$17.50
Ash. American White, 8 to 10 ft	2.75	25.00
Elm, American, 6 to 8 ft.	1.50	14.00
Elm. American, 8 to 10 ft.	2.25	21.50
Elm. American. 10 to 12 ft.	2.65	25.00
Flowering Cherry, Mt. Fugi and Yoshino, 2 to 21/2 ins. cal., BR.	7.50	65.00
Flowering Cherry, Mt. Fugi and Yoshino, 21/2 to 3 ins. cal., B&B	15.00	
Flowering Cherry, single weeping, 5-ft. stems, 2-yr. heads	6.50	60.00
Flowering Crab, Eleyi, 4 to 6 ft.	.90	8.50
Flamering Crab Flavi 6 to 7 ft	1.35	12.50
Hackberry, 5 to 6 ft.	1.75	16.00
Hackberry, 6 to 8 ft	2.25	21.50
Hackberry, 8 to 10 ft.	3.00	27.50
Linden, American, 6 to 8 ft.	2.25	21.50
Linden, American, 8 to 10 ft.	3.00	27.50
Linden, American, 10 to 12 ft.	3.75	35.00
Maple, Silver, 6 to 8 ft	1.50	14.00
Maple. Silver, 8 to 10 ft.	1.75	16.00
Maple. Silver. 10 to 12 ft	2.25	21.50
Maple. Silver, 2 to 21/2 ins. cal.	4.50	42.50
Oak, Red and White, 6 to 8 ft	2.65	25.00
Oak, Red and White, 8 to 10 ft.	3.65	35.00
Poplar, Bolleana, 5 to 6 ft.	1.00	9.00
Poplar. Bolleana. 6 to 8 ft	1.35	12.50
Poplar, Lombardy, 6 to 8 ft	***	6.00
Poplar, Lombardy, 8 to 10 ft.		7.50
Poplar, Lombardy, 10 to 12 ft.		12.00
Prunus pissardi, 5 to 6 ft.		7.50
Prunus pissardi, 6 to 8 ft		10.00
Redbud (Cercis canadensis), 3 to 4 ft	1.00	6.50 9.00
Redbud (Cercis canadensis), 4 to 6 ft		
Redbud (Cercis canadensis), 6 to 8 ft	1.75	16.00

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WAYNESBORO, VIRGINIA

#### CHINESE ELM

Transplanted, well rooted, carefully pruned low heads, in three popular sizes:

	Per 10	Per 100
5 to 6 feet.	\$ 6.00	\$50.00
6 to 8 feet.	8.00	70.00
8 to 10 feet	10.00	90.00

Price is packed and F.O.B. Huntsville, Guaranteed prompt shipment and also to please you and your customers. Ask for complete Wholesale Price List.

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# CHINESE CHESTNUT TREES and SEED NUTS

Pure Castanea mollissima nuts and seedling trees from the same orchard containing the parent trees of the new U.S.D.A. varieties Nanking, Meiling and Kuling. No better strains available. Trees from 12 inches to 5 feet. Prices on request.

#### LEELAND FARMS

P. O. BOX 128

LEESBURG, GA.

slender habit than the type. The thornless characteristic is not perpetuated by seeds. Some thorned seedlings will be produced from every lot of seeds from thornless trees. The greatest number of thornless seedlings on record from any single lot of seeds is ninety three per cent, and the average is between forty and sixty per cent.

Gleditsia triacanthos elegantissima is a thornless, dense, bushy form sometimes used for hedge purposes. Gleditsia triacanthos bujoti is a near weeping form with pendulous branches. Gleditsia triacanthos nana is a rather dwarf and compact type.

In addition to the above varieties. there are three selected clones which have all been produced by vegetative propagation from selected individual trees. The clonal selections Calhoun and Millwood are being grown by the Tennessee Valley Authority soil conservation service and other interested agencies, because of the nutrient content of their pods. These fruits produce as much carbohydrate material per acre as field corn and make excellent cattle feed. In addition, the growth of pasture grasses beneath the trees is markedly benefited by the light shade of the honey locusts.

Another clone has been selected and patented under plant patent 836 by the Siebenthaler Co., Dayton, O. This vegetatively produced variety is both thornless and staminate so that it never produces any of the long. twisted pods which are considered objectionable in a street tree. The original selection is now about 30 years old and has definitely assumed a vase-shaped form of growth. Even the lower branches are somewhat ascending. This variety will appar-ently never need the biennial pruning of lower branches which presents such a problem in maintenance with many of our common street trees. At the present time, this selection approaches closely to the ideal of the perfect shade and lawn tree. It possesses all the good qualities of the average honey locust, and, in addition to being both thornless and seedless, it has excellent structure and form.

With a species showing such individual variation as is exhibited by the honey locust, it should be possible to choose a number of types and forms to fit specific site conditions. There is a definite need for a strong, rangy central leader type for roadside planting as well as for a dwarf form with a mimosa-like crown. Perhaps even a fastigiate form may be found. Keen and continued observation on the part of plantsmen everywhere will be

Per 10 Per 100

\$60.00

60.00

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## GRAFTED STOCK

For Spring, 1950, Delivery

Per 10	Per 100	Per 10
Acer palmatum atropurpureum\$7.00	\$65.00	Magnolia soulangeana nigra\$6.50
Acer palmatum dissectum atropurpureum 7.00	65.00	Magnolia stellata
Cornus florida alba plena	45.00	Magnolia stellata rubra
Cornus florida rubra	45.00	Magnolia stellata, Water Lily
Cornus florida rubra Prosser	65.00	Magnolia rustica rubra
Fagus sylvatica riversi	65.00	Thuja occidentalis douglasi (spiralis) 4.50
llex opaca femina	45.00	Thuja occidentalis elegantissima
Juniperus chinensis columnaris glauca 5.00	45.00	Thuja occidentalis lutea, Mary Corey 4.50
Juniperus chinensis columnaris viridis 5.00	45.00	Thuja occidentalis lutes, George Peabody 4.50
Juniperus chinensis keteleeri 5.00	45.00	Thuja occidentalis nigra 4.50
Juniperus chinensis neaboriensis 5.00	45.00	Thuja occidentalis pyramidalis 4.50
Juniperus chinensis sargenti 5.00	45.00	Thuja occidentalis rosenthali 4.50
Juniperus chinensis sargenti glauca 5.00	45.00	Thuja occidentalis wareana (sibirica) 4.50
Juniperus chinensis meyeri 5.00	45.00	Thuja orientalis aurea nana 4.00
Juniperus virginiana burki	45.00	Thuja orientalis conspicua
Juniperus virginiana canaerti 5.00	45.00	Thuja orientalis elegantissima
Juniperus virginiana elegantissima 5.00	45.00	Tsuga canadensis pendula
Juniperus virginiana glauca 5.00	45.00	Tsuga canadensis pendula, 1-yr. grafts
Juniperus virginiana globosa 5.00	45.00	AU 1 1 1 17 AV 1 1
Juniperus virginiana kosteriana 5.00	45.00	All the above shipped from 21/4-inch rose pots
Juniperus virginiana schotti 5.00	45.00	
Juniperus virginiana pyramidaformis hilli 5.00	45.00	Special for Fall Shipment
Juniperus sabina Von Ehron 5.00	45.00	Special for Fall Shipment

#### hipment

Magnolia soulangeana, I-yr. grafts... .\$75.00 per 100 Magnolia soulangeana nigra, 1-yr. grafts.....\$75.00 per 100

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions,

65.00

60.00

#### HESS' NURSERIES

Magnolia soulangeana ...... 6.50

MOUNTAIN VIEW, N. J.

necessary if such trees are brought to public attention. It is even possible that certain clonal rootstocks or interstocks may be discovered which will modify the size and form of the budded variety. Surely the honey locust species offers a rare opportunity for developing trees to fit specific needs and requirements.

#### FOUNDATION PLANTINGS.

[Concluded from page 10.]

garage. If trees are to be used, the tallest trees are more effective on the lawn area near the garage, with a smaller tree on the other side (see illustration C on page 10).

Repeat the planting of the same species, and do not use too much variety. If mountain laurel is a part of the foundation planting, include it in other plantings on the property. This practice tends to create a more harmonious picture and a feeling that all the plantings are a part of the same home.

OTTO STAUB, Staub Nursery & Poultry Farm, Chenango Forks, whose firm has sold nursery stock for a number of years, now plans to grow stock on his forty

Northern-grown

Canadian Hemlock American Arborvitae Balsam Fir

						Per 100	Per 1000
	2	to	4	ins.,	sdlgs	. \$0.80	\$ 5.00
	3	to	6	ins.,	sdlgs	1.50	10.00
	6	to	9	ins.,	sdlgs	. 2.50	15.00
	9	to	12	ins	******	. 6.00	40.00
1	2	to	18	ins		8.00	65.00

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on re-

WILLIAM CROSBY HORSFORD CHARLOTTE, VERMONT

#### LINERS

Ask for list.

BROUWER'S NURSERIES NEW LONDON, CONN. Box 25

#### BURR

Leading wholesale source for Nursery Stock Send us your Want List.

C. R. BURR & CO., INC. Manchester, Conn.

#### NORTHERN - GROWN LINING - OUT STOCK

Betula papyrifera	Pe	r 100	Per 1000
1 to 2 ft		\$6.00	\$50.00
2 to 3 ft			
Clethra ainifolia			
6 to 18 ins		5.00	45.00
Ilex verticillata			
1 to 2 ft		5.00	40.00
Syringa vulgaris			
1 to 2 ft		6.00	50.00
Viburnum cassinoides			
1 to 2 ft		6.00	59.00
Viburnum lentago			
1 to 2 ft		6,00	30.00
EVENCE	CEA	10	
EVERGRI	EFN	(2	
Thula occidentalis			
6 to 12 ins		5.00	40.00

ISAAC LANGLEY WILLIAMS P.O. Box 352 Exeter, New Hampshire

#### POTTED LINERS

GRAFTS

(Beetle Certified)

HEASLEY'S NURSERIES Freeport Rd. BUTLER, PA.

#### PRIVET and BERBERIS

Splendid Stock

Write for Special Quotation

LESTER C. LOVETT DELAWARE

#### **PLUMFIELD NURSERIES**

BOX 7

L. A. Moffet, Mgr.

FREMONT, NEB.

#### TERMS AND CONDITIONS OF SALE

TERMS—One per cent discount for cash if paid on or before 10th of month following date of invoice, and is due NET 30 days thereafter. Interest charged on past due accounts.

These terms are offered to those with established credit; otherwise cash, security, or satisfactory references. C.O.D. orders must be accompanied by one-fourth cash.
PRICES in this list are based upon present market conditions and are subject to change without notice. These are Wholesale Prices and apply upon the following

mange willout no

					Per	Per						Per	Per
Ash, Gree					100	1000	Locust, Bla					100	1000
15,000					2.50		8000				ft.		\$ 40.0
70,000				îns	1.80	15.00	20,000				ft.	2.90	25.0
200,000				ins	1.20	10.00	Mulberry,						
Buckthorn,	Da	huri	ian.				6000				ft	4.00	35.0
300	2	to	3	ft	7.50	65.00	50,000				ins		25.0
12.000	6	to	12	ins.	3.00	25.00	30,000				ins.		16.0
Buffalober	v.						30,000	6	to	12	ins.	1.20	10.0
8000		to	12	ins.	2.50	20.00	Pin Oak.						
Caragana.			-				4000				ft.		150.0
1000		+0	3	ft.	6.00	55.00	6000	2	to	3	ft.	12.00	100.00
5000				ins.	4.50	40.00	3000	18	to	24	îns.	9.00	80.00
12.000		7.00	-	ins.	3.20	28.00	Poplar, Lor	nba	rdy	. 1.	yr.		
20.000				ins.	2.10	18.00	1600	5	to	6	f.	14.00	120.00
	-				4.10	10.00	1000	4	to	5	f1.	10.00	90.00
Cydonia J				ins.	3.50	30.00	500	3	to	4	ft.	8.50	75.00
1 2 2				ins.	2.50	20.00	100	2	to	3	ft.	5.60	50.00
3500		10	12	ms.	2.30	20.00	Redbud.						
Elm, Chine							Nebra	ska-	arc	nwo	. Net	oraska se	eds.
20,000					3.50	30.00					ins.		70.00
160,000					2.40	20.00	10.000				ins.		40.00
100,000					1.70	14.00	Sand Cher	rv.					
2,000,000	6	to	12	ins.	.80	7.00	8000		to	3	ft.	10.00	90.00
Honeysuck	e.						30,000				ins.	8.00	70.00
100,000	6	10	12	ins.	2.50	20.00	40,000				ins.		50.00
Honey Loc	ust.	Th	orn	226			15.000				îns.		35.00
2000				ft.	3.50	30.00	Rosa Multi			1.00		1.00	30.00
5000				ins.	2.60	22.00	Grown			WAS	torn	ends	
30,000				ins	1.80	15.00	100.000				ins.	COM2.	
80.000				ins	1.40	12.00	100,000				mm	2.50	20.00

ORNAMENTAL EVERGREENS

Trees & Shrubs

**BAGATELLE NURSERY** 

P. O. Huntington Station, N. Y.

HEMLOCK Rhododendron — Kalmia Azalea

**CURTIS NURSERIES** 

CALLICOON, N. Y.

SHEPARD NURSERIES
Growers and Distributors of

ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing. Skaneateles, N. Y.

#### We Offer-

EVERGREENS — In a large assortment of PYRAMIDAL and GLOBE ARBORVITAE, PFITZER JUNIPER and YEWS in grades at attractive prices. SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY and SHADE TREES.

Mail want list for prices.

THE WESTMINSTER NURSERIES

#### LINING-OUT STOCK

If you have not received a copy of our Fall, 1949, price list and are interested, send for same.

THOMAS B. MEEHAN CO., Inc.

PRINCETON NURSERIES
Headquarters for Qua

A NCT OF

Headquarters for Quality
Ornamental Stock
Send we your want list.
PRINCETON NURSERIES
Princeton, Naw Jursay
Phase: Princeton 1776

#### NATIONAL PLANT BOARD VOTES RECOMMENDATIONS.

The National Plant Board, composed of representatives of the regional boards representing state inspection and regulatory officials, met at Chicago October 17 and 18, concluding its sessions of detailed discussions by voting the following recommendations, summarized by R. P. White, executive secretary of the American Association of Nurserymen, who attended the meeting:

Request the federal bureau of entomology and plant quarantine to study the plant quarantine act of 1912 carefully and determine amendments needed to strengthen the law, and to present these in conference to the board.

Support amendments which would exclude importation of plant disease organisms, virus, soils, snails and garbage as possible pest risks to agriculture.

Oppose any relaxation in customs inspection as proposed by the Mc-Kenzie report, which recommended that customs look at only ten per cent of the incoming baggage. Records indicate that ninety per cent of the dangerous plant pest interceptions would be missed by such a procedure.

Approve a statement calling for more cooperative handling of rootknot nematode on nursery stock in interstate commerce and indicate that this pest should not be handled by embargo action by any state.

Recommend to the states that expiration dates on state certificate shipping tags be eliminated when such action can be taken under state laws

Favor an amendment to the barberry quarantine to permit interstate movement of seeds of resistant varieties of barberry from outside the nineteen eradication states to these states under proper safeguards.

It was reported at the meeting that since January 1, 1949, 381 shipments of plants required to be grown under postentry quarantine had been imported, constituting 254,833 units of plant material. These went to thirtyeight states, with New York, New Jersey, Pennsylvania, Massachusetts and Connecticut getting over half of the total. Examination of the figures indicated that 52,000 of these units of plant material were hop sets going to Oregon and Washington, and 151,000 units of rose species exclusive of numerous small importations of new varieties. The remaining 51,000 plants covered a wide variety of genera, usually in small numbers.

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# KRIEGER'S WHOLESALE NURSERY

BRIDGMAN, MICHIGAN

Telephone 22

#### SMALL FDUITS

These prices cancel all previous lists and are subject to change without notice, 250 or over at 1000 rate. Boxing at cost, All prices F.O.B. Bridgman, Usual terms.

GRAPES	RED RASPBERRIES Per 100 1	
Per 100 Per		\$ 62,50
Concord, 2-1\$10.00 \$ 8		47.50
Concord, 1-1 8,00 6	00 Chief, transplants	60.00
	00 Chief, 1-yr. No. 1	45.00
	00 Sunrise, transplants	60.00
	00 Sunrise, 1-yr. No. 1	45.00
Catawba, 1-1 9,00 7	00 Indian Summer, transplants 8.00	70.00
Fredonia, 2-1 11.00 9	00 Indian Summer, 1-yr. No. 1 6.50	55.00
	00 St. Regis, transplants	60.00
Delaware, 2-1 14.00 12	00 St. Regis, 1-yr. No. 1 5.50	45.00
	BLACK RASPBERRIES	
	· Cumberland, trans., No. 1 8.00	70.00
	· Cumberland, trans., No. 2 6,50	55,00
	Cumberland, Tips, No. 1 4.50	35.00
BLACKBERRIES	Logan, trans., No. 1 8.00	70.00
Eldorado, transplants 6.50 5	DO Logan, trans., No. 2	55.00
Eldorado, No. 1, r.c 5.00 4	00 Logan, tips, No. 1 4.50	35,00
Alfred, transplants 6.50 5	00 Morrison, trans., No. 1 9.00	80.00
	00 Morrison, trans., No. 2	65.00
Early Harvest, No. 1, r.c	Morrison, tips, No. 1	40.00
BOYSENBERRIES and DEWBERRIES	PURPLE RASPBERRIES	
	80 Sodus, No. 1, tips 5,50	45,00
	ASPARAGUS	
Lucretia Dewberry, No. 1 tips 5.59	Paradise and Washington	
CURRANTS	3-yr, heavy	30,00
	0 00	18.00
Wilder, 3-yr. heavy 15.00 13		12.00
Wilder, 2-yr. No. 1	10 10 000 1-1-	10.00
	VICTORIA RHUBARB	10,00
Red Lake, 2-yr. No. 1		
	. Whole Roots	
GOOSEBERRIES	1½-in. and up 8.00	75.00
Downing, 2-yr. No. 1	1 to 1½-in	50.00
Househton 0 vs No 1	% to 1-10 1.00	35.00
Champion 2 ve No 1	72 LO 74 - III	25.00
BLUEBERRIES	RED RHUBARB	
Prices of Rancocas, Rubel, Jersey	Canada Red, No. 1 divisions 40.00	350.00
	MaDanald No. 1 divisions 20.00	250,00
Each Per 10 Per 100 Per 1 2-yr., 9 to 12 ins., bearing age \$0.40 \$3.50 \$32.50 \$300	HOREE BARIEN	
2-yr., 9 to 12 ins., bearing age\$0.40 \$3.50 \$32.50 \$30.03-yr., 12 to 18 ins., bearing age55 5.00 47.50 450		15.00
4-yr., 18 to 24 ins., bearing age75 7.00 67.50 650		35.00

#### BOSTON HARVEST SHOW.

The Boston harvest show, which built its central motif around the centennial of the Concord grape, was held at Horticultural Hall, Boston. from October 13 to 15.

Grapes dominated the decoration of the main exhibition hall where the New York agricultural experiment station, Geneva, won a silver medal for a collection of seedling grapes. The New York station also received an award of merit for seedling prune No. 827 and votes of commendation for actinidia, native persimmons and seedling crab apples.

A chrysanthemum courtyard, created by the Bay State Nurseries, Inc., North Abington, Mass., dominated the stage of the lecture hall and won a special prize. The latest varieties of chrysanthemums were arranged by John Russell in a clever display across the entire back wall of the lecture hall and won a gold medal for Breck's, Inc., Boston.

RECENTLY incorporated at San Lorenzo, Calif., was the Twin Nurseries Co.

THE B & G Nursery, 1214 South Kansas avenue, Newton, Kan., is now under new ownership. James M. Helfer is one of the new partners.

#### **OUALITY MERCHANDISE** AT REASONABLE PRICES

C. L. VANDERBROOK & SON MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

#### KOSTER NURSERY Division of Seabrook Farms

Wholesale Nurserymen

BRIDGETON, N. J.

\*\*\*\*\*

Specializing in the propaga-tion of grafted lining-out stock of all kinds. Write for our new list of lining-out stock.

### TAXUS BREVIFOLIA

Finished stock. Come and see it. In lots of 25 to 100. For cash. 15 to 18 ins., B&B.....\$3.50 18 to 24 ins., B&B...... 4.50 No shipping. Send your truck.

#### HUEBNER'S NURSERY MONROE, N. Y.

Orange County Route 17

#### WANTED

10,000 Blue Spruce
Bushy, well branched, 8 to 10 or 10 to
ins., transplants. Good color.
Wire or phone.

MUSSER FORESTS, Inc. PENNA.

#### ACER PLATANOIDES . NORWAY MAPLES

All these trees are well branched with fine fibrous roots and have been twice transplanted. Additional charge of 10 per cent will be added for balling. No charge for loading trucks here at the nursery. the nursery.

When C.O.D. shipment is desired, a cash deposit of 25 per cent must accompany order.

Orders for less than 100 of a size will be invoiced at an ADVANCE of 25 per cent OVER THE HUNDRED RATE.

#### STATE ROAD NURSERY

State and Sproul Rds. Media, Pa. Route I

#### CHINESE CHESTNUT TREES Blight-resistant.

TREES — TRANSPLANTS — LINERS

THE GOLD CHESTNUT NURSERY Cowen, W. Va.

# **Coming Events**

#### MEETING CALENDAR.

For the benefit of state association officers who wish to set the time of midwinter meetings with a minimum of conflict, the following list is given of convention dates already made known. Secretaries of other associations are invited to notify the editor of further meeting dates as soon as they are set.

November 17 and 18, Holly Society of America. New Jersey agricultural experiment station, New Brunswick.

December 5 and 6, Minnesota State Nurserymen's Association, Inc., Lowry hotel, St. Paul.

December 7, Western Pennsylvania Nurserymen's Association, Webster Hall hotel, Pittsburgh.

December 7 and 8, Wisconsin Nurser men's Association, Schroeder hotel, Mil-

December 8, Long Island Nurserymen's Association, La Grange hotel, Babylon,

January 3 to 6, Indiana Association of Nurserymen, Union Memorial building, Purdue University, West Lafayette.

January 4 to 6, A. A. N. Eastern Regional Meeting, Hotel Statler, New York.

January 5, New Jersey Association of Nurserymen, Hotel Statler, New York.

January 5, New York State Nursery-men's Association, Hotel Statler, New

January 10 and 11, Oklahoma State Nurserymen's Association, Biltmore hotel, Oklahoma City.

January 11, Kansas Nurserymen's Association, Hotel Muehlebach, Kansas City,

January 11 and 12, Western Association Nurserymen, Hotel Muehlebach, Kansas City, Mo.

January 12, Connecticut Nurserymen's Association, Waverly Inn, Cheshire.

January 13 and 14, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines.

January 15 to 17, Executive Committee, American Association of Nurserymen, Hotel La Salle, Chicago.

January 16, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 16, National Mail Order Nurserymen's Association, Hotel La Salle, Chi-

January 16, All-America Rose Selections, Inc., Hotel La Salle, Chicago.

January 17 to 19, Illinois State Nursery-men's Association, Hotel La Salle, Chicago. January 23 to 25, Short Course for Nurserymen, Landscape Gardeners and Ar-borists, Neil House, Columbus, O.

January 25, New Jersey Association of Nurserymen, Hotel Hildebrecht, Trenton. January 26 and 27, Ohio Nurserymen's Association, Neil House, Columbus.

January 29 to 31, Virginia Nurserymen's Association, Hotel John Marshall, Rich-

February 1 to 3, Michigan Association of Nurserymen, Fort Shelby hotel, Detroit.

February 7 to 9, New England Nursery men's Association and Massachusetts Nurserymen's Association, Hotel Kenmore, Boston.

February 15, Rhode Island Nurserymen's Association, Newport.

February 15 to 19, Midwestern Chapter of National Shade Tree Conference, Hotel La Salle, Chicago.

#### HOLLY SOCIETY TO MEET.

The Holly Society of America will meet at the New Jersey agricultural experiment station, New Brunswick, November 17 and 18, according to Harry W. Dengler, vice-president.

#### LONG ISLAND MEETING.

The La Grange hotel, Babylon, N. Y., has been chosen for the annual meeting of the Long Island Nurserymen's Association, December 8, according to David R. Bulk, secretary.

#### RHODE ISLAND DATE.

February 15 is the date set for the annual meeting of the Rhode Island Nurserymen's Association at Newport, Secretary J. C. Brownell has announced.

#### INDIANA DATES SET.

J. C. Bunch, president of the Indiana Association of Nurserymen, announces that the association's winter meeting will be held January 3

to 6 on the campus of Purdue University, Lafayette, in the Union Memorial building.

#### NEW JERSEY DATES.

For its annual winter meeting the New Jersey Association of Nurserymen will meet twice in January, Secretary R. P. Korbobo, has announced. The first meeting will be the morning of January 5 at the Hotel Statler. New York, during the convention of the eastern regional nurserymen. The second will be an all-day session January 25 at the Hotel Hildebrecht, Trenton, N. J.

#### VIRGINIA SETS DATES.

The winter meeting of the Virginia Nurserymen's Association will be held at Hotel John Marshall, Richmond, January 29 to 31, according to A. S. Gresham, Jr., secretarytreasurer.

#### MINNESOTA PROGRAM.

The program for the twenty-fourth annual meeting of the Minnesota State Nurserymen's Association was announced recently by R. N. Ruedlinger, secretary. The meeting will be held December 5 and 6, at the Lowry hotel, St. Paul.

Monday morning will be devoted to registration, and the program will open at luncheon with the president's address, by Ken B. Law, followed by the treasurer's report by Harold Reid and the appointment of committees. Guest speaker for the afternoon will be the Hon. August Andre-

#### CHICAGO IN JANUARY

Are you planning on being in Chicago for the meetings in January? Then make your reservations at the Hotel La Salle NOW! Indications now are that our 1950 Convention will again be the "Largest Ever."

While we do not anticipate as much interference from other conventions as we had to meet last year, hotel men advise us that the room situation in Chicago's loop hotels will still be tight all through the month of January, and early reservations will be necessary. Write now to the Hotel La Salle, La Salle at Madison, Chicago 2, Illinois, for your reservations!

Meeting Dates:

ILLINOIS STATE NURSERYMEN'S ASSOCIATION, ANNUAL CONVENTION January 17-18-19, 1950. AMERICAN ASSOCIATION OF NURSERYMEN, EXECUTIVE COMMITTEE

#### January 15-16-17, 1950. NATIONAL LANDSCAPE NURSERYMEN'S ASSOCIATION

January 16, 1950.

Closed meetings of a number of national allied nurserymen's associations will also be held over the week-end.

#### ILLINOIS STATE NURSERYMEN'S ASSOCIATION

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sen, congressman from the first district of Minnesota, who will speak on "The American System vs. Socialism"; Harold Parnham, Robinson & Parnham, Des Moines, Ia., who will talk on "Doing More for the Customer," and Dr. Leon Snyder, extension horticulturist, University of Minnesota, who will speak on "Hardiness of Nursery Stock."

Vernie Johnson, Walter Niehaus and Gordon Bailey have arranged a banquet for 6 o'clock, at which Milton Boock, principal of the Lake City high school, will be toastmaster.

Representing the American Association of Nurserymen, Wayne Ferris, Hampton, Ia., vice-president, will extend greetings to the convention, and Richard P. White, executive secretary, Washington, D. C., will report on "National Affairs Affecting the Nurserymen" when the meeting is resumed Tuesday morning. Prof. T. L. Aamodt, state entomologist, and the legislative committee will also report at this session.

Following a luncheon for the members of the A. A. N., the afternoon program will begin at 1:30 with a talk by A. G. Mereness, public relations director, Minnesota farm bureau, and end with a talk on "Minnesota Fruits," by Prof. W. H. Alderman, chief of the division of horticulture, University of Minnesota.

## EASTERN REGION MEETING SCHEDULE.

Participating organizations in the 1950 convention of eastern nurserymen which will be held January 4 to 6 at the Hotel Statler, New York, are region I of the American Association of Nurserymen, region I of the National Landscape Nurserymen's Association, the New England Nurserymen's Association and the state nurserymen's associations of New York, New Jersey, Connecticut, Pennsylvania and Rhode Island.

The 3-day convention will open Wednesday afternoon, January 4, with a meeting of the board of directors of the New York State Nurserymen's Association at 2 p. m. and an executive meeting of region I of the A. A. N. at 4 p. m.

Thursday morning the New York State Nurserymen's Association will hold a general meeting at 9:30 to which out-of-state nurserymen are invited, and at the same time the New Jersey Association of Nurserymen will meet in another room. The afternoon will be devoted to a meeting of region I of the N. L. N. A. at which Homer Dodge, Landscape

# SUGAR MAPLE LINERS

(Acer Saccharum)

With deciduous trees in good demand, these maple liners will rapidly grow into money.

																			P	er 100	Per 1000
2	to	3	1	t																\$16.00	\$150.00
																				20.00	190.00
4	to	5	f	t										,		8.				25.00	235.00
																				35.00	330.00
																				45.00	425.00
																				60.00	575.00

Plant this fall and have the job out of the way.

## EVERGREEN NURSERY CO.

Per 100

Established 1894

Canadian Hemlock.

STURGEON BAY, WIS.

#### **HEMLOCK and BOXWOOD**

Quality Plants. New low prices.

3 to 4	ft.	B&B														κ.	. 1	\$2.50	
4 to 5	ft.,	8&8				8	*	8		×			*			,		3.25	
5 to 6	ft.,	B&B		,				5	×	9. 3					×			4.00	
24 ins	20 in ead, hig	B&B h, x,	gł	2	X		1	4.		n.				×	ı			. 2.50	
spre	ead.	B&B											*					3.25	
26 ins	, hic	h, x,	-	6	-11	n.	4	p	70	0	ac	d,	-	8	ß,	8		5.00	
26 ins	. hic	h, x,	1	8	-i	n.	60	p	or	0	80	d,	1	38	ž	B		6.00	

Thousands of Nandinas, Pfitzers, Hollies, Japanese Magnolias, Osmanthus, Azaleas, Sugar Maples, etc. Write for prices on large quantities.

BOXWOOD NURSERIES MOCKSVILLE, N. C.

# AAN SEMMES, ALABAMA

Azaleas, Camellias, Gardenias and a General Line of Ornamental Nursery Stock Lining-Out Stock Our Specialty WHOLESALE ONLY

#### MAGNOLIA GRANDFILORA

Evergreen magnolia, heavily branched specimens, 3 times transplanted. Will be dug with a wired ball, 2½ to 4 ft., 80c per ft. (No order for less than 10.) Crating 10 per cent extra.

ALTAVISTA NURSERIES

#### **Old English BOXWOOD**

(Wholesale Only)

(wholesale only)

SELLING OUT. Specimens 20 x 18 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS
Mrs. R. P. Royer High Point, N.



#### LINERS

WELL ESTABLISHED

List and prices on request.

GRESHAM'S NURSERY R.F.D. 9 RICHMOND, VA.



# SEMMES

AZALEAS - CAMELLIAS

and other choice evergreens.
Wholesale Catalog SEMMES, ALA.

# LINERS—Fall, 1949

#### **Rooted Evergreen Cuttings**

FIELD FRAMES
Juniperus Hetzi Glauca Per 100
1000 6 to 8 ins., 3-yr\$25.00
3500 8 to 10 ins., 2-yr 22.50
Juniperus Hor. Pl. (Andorra)
4000 8 to 10 ins., 2-yr. 20.00
Thuja Occ. Globosa
2000 6 to 8 ins., 3-yr 22.50
4000 6 to 8 ins., 2-yr 20.00
Thuja Occ. Pyramidalis
2000 6 to 8 ins., 2-yr 22.50
300 8 to 10 ins., 3-yr 25.00
POTS
Juniperus Hor. Pl. (Andorra) Per 100
4000 6 to 8 ins., 1-yr \$20.00
Juniperus Hetzi Glauca
4000 6 to 8 ins., 1-yr 22.50
Taxus Cuspidata
4000 6 to 8 ins., 2-yr 25.00
2000 4 to 6 ins., 2-yr 22.50

POTS—Continued	
Taxus Media Hicksi	Per 100
2000 6 to 8 ins., 1-yr	\$25.00
500 8 to 10 ins., 2-yr,	. 27.50
Juniperus Chin, Pfitzeriana	
4000 6 to 8 ins., 1-yr	20.00
Pachysandra Terminalis	
1000 4 to 6 ins., 2-yr	. 8.00
Euonymus Vegetus	
2500 4 to 6 ins., 1-yr	. 17.00

## Terms: NET CASH WITH ORDER PACKING FREE

Orders will be filled in turn as received while our stocks last, subject to conditions beyond our control.

An order for 25 of the same variety and size sold at the 100 rate.

Minimum order, 100 plants.

We would welcome your inspection.
Location is 18 miles west of Chicago on Alternate U. S. 30.

#### **ELMHURST NURSERIES. Inc.**

York and Roosevelt Roads, ELMHURST, ILL.

Ted W. Smith, Pres.

Phone: 5686

Emil H. Martens, Mar.

# RED BARBERRY FLOWERING CRAB

Berberis atropurpurea. Red Barberry 15 to 18 ins., 2-yr. transplants 18 to 24 ins., 2-yr. transplants 24 to 30 ins., 2-yr. transplants Above well finished plants certified	\$3.00 3.50 4.20	Per 100 \$25.00 30.00 40.00 vt. permit.	Per 1000 \$200.00 250.00 350.00
Flowering Crab. Variety: Hopa.			
Crimson buds, opening rose. Attractive frui			
4 to 5 ft	6.00	50.00	
5 to 6 ft 6 to 7 ft	9.00	60.C0 75.00	1111
Privet, Amur River South.	9.00	73.00	
18 to 24 ins., transplanted	90	7.00	
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No. 1		5.00	45.00
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Privet, Ibota, 3 to 4 ft., heavy	
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Wholesale Growers of

Service Co., Framingham, Mass., executive committeeman for the region, will preside.

A general meeting of region I of the A. A. N. will be held Friday morning at 9:30.

Valleau C. Curtis, Curtis Nurseries, Callicoon, N. Y., is general chairman for the convention; Mrs. Marie Engberg, Rosedale Nurseries, Eastview, N. Y., is secretary-treasurer and will be in charge of registration; C. W. M. Hess, Hess' Nurseries, Mountain View, N. J., is chairman of the committee on trade exhibits; Fred J. Noble, Lovett's Nursery, Little Silver, N. J., is chairman of the committee on program advertising: Charles R. Mouquin, Eugene Henri Mouquin, Inc., Glen Head, N. Y., is in charge of the cocktail party, and Howard C. Taylor, Rosedale Nurseries, Eastview, N. Y., is chairman of the publicity committee.

## TENNESSEE HORTICULTURAL SOCIETY TO MEET.

The forty-fourth annual convention of the Tennessee. State Horticultural Society will be held at the New Southern hotel, Jackson, December 1 and 2. President A. C. Jackson, Paris, will open the meeting, and the first morning's program will include talks on the importance of breeding and maintaining more productive horticultural crops and sweet potate production in Tennessee. Weather permitting, there will be a motor trip to local orchards in the afternoon.

A discussion of "New and Old Peach Varieties" will be given by John T. Bregger, president of the American Pomological Society, Clemson, S. C., to open the second morning's business session, and other talks on peach culture will be given.

Control of diseases of strawberries and raspberries will be discussed in the afternoon.

#### CAMELLIA SHOW DATES.

William T. Wood, chairman of the exhibits and awards committee of the American Camellia Society. has announced the following sched ule of camellia shows for 1950: January 14 and 15, Pensacola, Fla., and Cordele, Ga.; January 21 and 22, Lafayette, Ind.; January 28 and 29, Charleston. S. C.; Cylo, Ga.; Jacksonville, Fla., and Monks Corner, S. C.; February 4 and 5, Waycross. Ga.; Augusta, Ga., and Perry, Ga.; February 11 and 12, Savannah, Ga.; February 15 and 16, Columbia, S. C.; February 18 and 19, Macon, Ga., and Pasadena, Calif.; February 22, Marasadena, Calif.; February 22, Marasadena,

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100	2	to	3	ft	B&B	3.0
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MAC	M	AT	*1		OHI ANCEANA	
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# NIGRA Vith buds. 3,00 40 2 to 3 ft., B&B. 3,00 60 3 to 4 ft., B&B. 1,00

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500	3	to	4	ft.,	B&B	3.00
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shallville, Ga., and March 9 and 10, Fayetteville, N. C.

#### **CAMELLIA EXPERTS** TO MEET AT LONDON.

The Royal Horticultural Society of Great Britain will hold its conference on camellias and magnolias at London, March 31 and April 1, 1950. A 6-day tour of Cornish gardens will be made preceding the conference. which will be held in conjunction with the society's fortnightly show. The camellia show will include competitive classes for camellias and magnolias and exhibits of these flowers.

Six different speakers will talk at conference meetings, and their subjects will include "Camellias in Cor-nish Gardens," "Forms of Camellia Japonica," "Propagation of Camel-lias and Magnolias," "Survey of the Genus Magnolia Together with Michelia and Manglietia," "Chinese chelia and Manglietia." Magnolias in Cultivation" "Camellia Species."

One of the speakers will be Dr. H. Harold Hume, president emeritus of the American Camellia Society. His subject will be "Forms of Camellia Japonica."

The tour will be based from Falmouth, which will be reached from London by train. From Falmouth, bus tours are scheduled to take in various gardens and a flower show at Truro.

For the days of the conference, excursions to gardens in the vicinity of London have been planned, which will include visits to the Royal Horticultural Society's gardens at Wisley and the Royal Botanic Gardens at Kew.

#### LOUISIANA SCHOLARSHIPS.

A scholarship of \$150 has been established by the board of directors of the nurserymen's division of the Louisiana State Horticultural Society for a student at Southwestern Louisiana Institute. Lafayette, who will work with flowering shrubs adapted for production in that area.

A resolution to petition the state legislature for funds to expand the work in ornamental horticulture at the institute was also passed by the nurservmen.

A scholarship for \$350 was also presented for work in ornamental and floricultural research by the Federated Garden Clubs of Louisiana.

IN OCTOBER C. B. Lehmer established Lehmer's Nursery, a 6-acre retail business at 301 Fox street, Harrisburg, Pa.

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Early Richmond.	Per	Per 1000
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Whips, 4 to 5 ft	20.00	
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FLOWERING PEACH,	00.00	****
Double red.		
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THUJA ORIENTALIS.		
3 to 4 ft.  THUJA ORIENTALIS.  Chinese Arborvitae, 2-yr	4.00	30.00
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PINUS NIGRA.		
Austrian Pine, 1-yr. 2 to 4 ins., sdlgs	4.00	35.00
JUNIPERUS VIRGINIANA	7.00	30.00
Platta River Lave		
2 to 4 ins., sdlgs	2.50	20.00
4 to 6 ins., sdlgs 30 at 100 rate; 300 at 1	3.50	30.00
30 at 100 rate; 300 at 1	000 ra	ite.
Packing FREE.		

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# This Business of Ours

Reflections on the Progress and Problems of Nurserymen By E. Sam Hemming

# THE LANDSCAPING OF EXTENSIVE AREAS.

Since World War I and the depression of the 30's, the breakup of large, gardened estates has been so swift and pronounced that nearly all of the landscape interests in the profession, such as the nursery industry and garden magazines, have concentrated on the small place. I think this has been a mistake, because a countertrend has been under way, although it is in contrast to the superbly manicured and adequately staffed

large garden. Today, a large number of mediumwealthy and wealthy persons are buying and operating, either by themselves or through managers, large farms in the east and middle west and ranches in the far west, which contrast with the old estates. Besides these, a large group of the American farm population, those who have big farms, is forming a new aristocracy. These two wealthy groups are becoming accustomed to modern, luxurious living and are demanding not only handsome homes, cars and home furnishings, but also the surroundings to match them.

Because of the geographical location of our own business in Maryland, we have had considerable experience in the past twenty years with the types of wealthy country people just described; perhaps fifty per cent of our work involves landscaping their properties. Where the well-to-do client in a suburban area might spend \$1,000 to \$5,000 or more for landscaping an acre or two, ours will spend a similar amount on 200 to 2.000 or more acres.

There are three general types of these farms: The tidewater farms that stretch from New England to Georgia and the Gulf, the big, rich farms of the middle west and the mountain-sheltered ranches of the far west. It is the first, only, with which I am familiar and which I shall discuss.

The first thing I have noticed is that one must condition his thinking. On the small place, the tendency is always to enclose it and set it off as a small gem in its own setting, everything being concentrated and the plot being a unit in itself. On a large place, you do the reverse; the feeling is to open up the whole area, and let the horizon be the margin of en-

closure; the fences are the utilitarian posts and rails or the semiinvisible wire type, rather than the high, solid hedge or screen fence. Unsightly views and buildings are either softened by plantings or made neat with paint. Large trees, open fields and pastures and woodland make the setting.

The water-front farm has two aspects that are more or less peculiarly its own; first, it has a driveway from the public road that is often a mile or more long, and second, the home has either two front doors, or if only one, an approach to the side or rear, for the front is always the water side. Long drives on these places are typical; they may be straight or curving through the woods and need no treatment other than a little work with the axe: they may be straight through open fields, usually with a fenced-in width of fifty or sixty feet, or they may curve through open fields, similarly fenced.

There is only one way to treat the straight drive through open fields,

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ORNAMENTAL SHRUBS
FOREST PLANTS and Seedlings

ROSES and EVERGREENS

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Reliable firm for general Nursery Stock and Belgian plants. Catalog on application. other than to leave it bare, and that is to plant an avenue of large-growing trees, generously spaced, about fifty feet apart each way. Of the considerable variety of trees that we have tried, I like the results obtained with silver maple, red maple, red cedar, Loblolly pine and pin oak. A too soft-wooded tree breaks up too easily, and the choice red oak, sweet gum, tulip poplar and certain exotics that do not become established easily result in an uneven stand by the time all failures are replanted.

The curving drive seems best planted by massed groups of native trees, such as maples, gums, Loblolly pine, cedar, Judas and dogwood, with an occasional single, large-growing specimen, these being placed at certain accent points. Not only must the masses of rhododendrons and azaleas, usually found on the short, curving drives of suburban



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# **ORNAMENTALS**

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Princeton, Illinois

properties, be forgotten, but masses of common flowering shrubs and trees generally are not practical, and the picturesque old apple usually becomes an insect-ridden runt. The larger the area of pasture-type grass, which can be kept mowed with a sickle bar, the more attractive the drive will be.

The house area is usually of gencrous proportions, often ten acres, with the house usually several hundred yards from the water. Since the site is often an old one, there are usually some big, old trees to set off and frame the house. A few more trees may be necessary and should be generously spaced. The foundation planting as we usually think of it is only of incidental importance. The most important feature is the open lawn, both the open vista to the water and on the land side. Because of the broad perspective and the sense of distance, greens-like texture is unnecessary, and often it is possible to merge the lawn into pasture-like grass, which can be mowed with a sickle bar, some distance from the house. Or the distant perspective can be achieved by the use of an electric fence and actual pasture, just as in colonial and English gardens they used the ha-ha wall and sheep. It is important to keep the lawn area open, except for the big trees. Mowing is important, too. I know of one client who used two small power mowers. Cutting the lawn this way took his men almost a week. Later, his farm tractor and a 3-gang fairway mower took less than a day.

The best driveway approach is usually to a side entrance, which serves both for utility and household purposes, with a minimum yet adequate driveway area. The day of the big carriage turn has disappeared, and if one can have open lawn from both front doors, so much the better.

The view to the shore line is best cut into broad vistas. Neither native growth fringe nor a completely cleaned out, open panorama is so attractive as two or three open vistas of water.

The house area is not usually enclosed by planting, as it is on the small lot, although an attractive evergreen grouping might be planted to the northwest as a windbreak if the broad water is in that direction and if it can be done without obstructing the view.

In the colder prairie states, windbreaks are more important. The barnyard area, which often is contiguous, can be softened with trees, but paint and neatness are most important.

Flower garden areas, when desired, are usually small, compact and close-

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Sizes 5 to 8 ins.; Yews, 4 to 6 ins.

Book your order for early spring. We winter all plants under glass, and they make a tight solid root-ball which more than satisfies. Soil will not shake off plants in shipping or planting.

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ly tied to the house and are best planned as a small formal area enclosed with picket fence or low hedge. The gardener is most often the lady of the house, with some unskilled help. In a good proportion of these places there is a swimming pool tied into the house and garden design.

Naturally, there are all sorts of variations and hybrids of these general designs, some good, some bad and some indifferent. Yet there is and will be a considerable increase in the development of this kind of farm home, and I believe there has not been sufficient emphasis on the philosophy of this type of landscaping.

E. S. H.

COVER ILLUSTRATION.

#### Thuja Occidentalis Woodwardi.

Of the many varieties of Thuja occidentalis, the American arborvitae, or white cedar, a half dozen or more are of dwarf globe-shaped form. One of the best of these, if not the best, and among the most widely known of the globose forms, is Thuja occidentalis woodwardi. The foliage is dark green and not so dense as on most of the other globe forms; it appears in vertical planes at the ends of the branchlets. Branches and branchlets are erect or ascending.

The Woodward arborvitae assumes a globe shape naturally and keeps its rounded shape even though it in time grows to a considerable diameter.

This useful form was originated and introduced many years ago by the proprietor of the Reading Nursery, Reading, Mass., and named for his son, J. Woodward Manning.

Since the native habitat of the American arborvitae is in the eastern half of the United States and usually in swampy ground, its forms are generally quite hardy and do best in fertile soil with ample moisture. Presenting a somewhat formal aspect, the globe forms fit well in certain types of landscape planting.

JACK'S LANDSCAPE SERVICE, operated by Jack Ginsburg, has moved from 1423 Avenue I to 1030 East Twelfth street, Brooklyn 30. N. Y.

AT HIS home at Wyandanch. N. Y., Dr. Herman B. Baruch, owner of the Bagatelle Nursery, was married to Baroness Anne Marie Mackay October 21. Dr. Baruch served as ambassador to the Netherlands from 1947 to September, 1949. He is the brother of Bernard M. Baruch.

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American Elm, 11/4 to 2-in.

Thurlow Willow, 5 to 6 ft., up to 2-in.

Apple, 2 and 3-yr., up to 1-in.

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5	to	10	ins										*	. \$	20.00 per 1000
10	to	16	ins.		*										35.00 per 1000
15	to	24	ins.					. ,		*	*				\$ 7.50 per 100
2	to	3	ft							*	*	×			12.50 per 100
3	to	4	ft	×	×					,	*		,		17.50 per 100
	WI	1 n	ot h	e		g	h	1	e	١	tr	D.		812	pply demand

again this season. First come, first served. Write for our new, very low prices on nursery stock. Big reductions.

ROLLERS NURSERY
Phone: 661 ROGERS, ABK.

#### OKLAHOMA CITY LANDSCAPE CLINIC.

More than 300 homeowners, interested in securing practical advice and information on beautifying their home grounds, registered to attend the landscape clinic held October 19 and 20 at Oklahoma City, Okla. The Oklahoma State Nurserymen's Association cooperated with the better gardens committee of the Oklahoma City chamber of commerce and the Oklahoma City council of garden flower clubs to bring the landscape clinic to Oklahoma City again this year.

Emphasis was given to the use of plant materials and methods particularly adapted to Oklahoma climate and soil. Oklahoma nurserymen served on the panel of experts offering suggestions and answering questions of homeowners.

The program was varied and contained something of interest to all gardeners. Speakers from Oklahoma A. and M., Stillwater, gave valuable information on such important topics as building the soil, mulching, insecticides, watering, the importance of planning and other subjects of interest to homeowners in this state.

Some of the outstanding talks included "Soil Preparation and Maintenance," by E. L. Whitehead, extension horticulturist; "The Place of Perennials and Bulbs in Landscape Design," a helpful talk and discussion led by J. C. Garrett, assistant extension horticulturist and landscape specialist, and the address, "New Trends in Plant Material and Their Function," by Robert P. Ealy, professor of landscape design. Another Oklahoman appearing on the program was F. Edgar Rice, Bartlesville, regional vice-president of the National Hemerocallis Society, who talked on "The Culture of Day Lilies."

Better planning of home grounds and improved methods of gardening were stressed in the address of William A. Dean, Chicago landscape architect. Mr. Dean stressed the importance of a conference of the landscape architect, the building contractor and the homeowner before construction of a new home is begun. The landscape features of the entire block should be considered as a unit, and trees should be of the same kind if possible, he said.

The value of counseling and planning, as well as construction and maintenance, was emphasized by Henry M. Lambert, Lambert Landscape Co., Dallas, Tex., who spoke on "Development and Care of Small and Medium-size Grounds." Practi-



Growers of a complete line of deciduous and coniferous species.

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# Northern-grown Stock

for Price List.

J. V. BAILEY NURSERIES St. Paul 6, Minn.

# QUALITY STOCK

	Each
Excelse Arborvitae, 24 to 30 ins	11.25
Excelsa Arborvitae, 30 to 36 ins	1.50
Baker Arborvitae, 24 to 30 ins	
Baker Arborvitae, 30 to 36 ins	1.50
Spiny Greek Juniper, 15 to 18 ins	1.25
Spiny Greek Juniper, 18 to 24 ins	1.50
Write for list of other stock.	

VERHALEN NURSERY CO. SCOTTSVILLE, TEXAS

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HEAVY 2-YR. SHRUBS FRUIT TREES

SPECIMEN EVERGREENS LINING-OUT STOCK

SNEED NURSERY COMPANY

P. O. Box 798 Oklahoma City 1, Okla.

# WE OFFER FOR FALL, 1949 and SPRING, 1950 Liriodendron Tulipifera

Tulip Poplar												F	er	100	Per 1000
6	to	12	ins.	*		×	*						. 8	1.25	\$10.00
2	to	18	ins.											1.75	15,00
0	to	3	ft			,								2.50	20.00
3	to	4	ft											3,50	30.00
	1010	2 to	2 to 18 2 to 3	2 to 18 ins. 2 to 3 ft.	2 to 18 ins 2 to 3 ft	2 to 18 ins	2 to 18 ins	2 to 18 ins	6 to 12 ins						

				-	
Redt	oud				
6	to 12	ins		. 2.00	15,00
12	to 18	ins		2.50	20.00
2	to 3	ft		3.50	30.00
3	to 4	ft		4.50	40.00
	e Do	gwood			
6	to 12	ins		. 2.00	15.00
12	to 18	ins		. 3.00	20.00
2	to 3	ft		4.00	35.00
3	to 4	ft		5.00	45.00
Azale	a B	aker	i		

Azalea Calendulac	:ea	
Flame Azalea 6 to 12 ins	. 5.00	30,00 35,00 50,00
Red Cedar		
4 to 6 ins 6 to 12 ins 12 to 15 ins	5.00	25,00 35,00 45,00
Special grafting size, 4-in, and up	5.00	45.00

We have some attractive prices on Junebud Peaches, 18 ins. and up, also Apple Whips, 18 ins. and up.

H. G. HALLUM NURSERY MCMINNVILLE, TENN.

#### ORNAMENTAL TREES. SHRUBS and EVERGREENS

Forest Tree Seedlings. Lining-out Stock.

Write for wholesale price list.

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Hall's Honeysuckle

If you need Hall's Honeysuckle for either fall or spring, write us for free samples and prices on large or small quantities

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McMinnville, Tenn. Telephone: 375-X

#### NURSERY STOCK

Rhododendron Carolinianum Maximum Kalmia

Leucothoe Native Azaleas Hemlock (Tsuga) . . . and others

NATURE'S GREENHOUSE TALLULAH FALLS. GA.

cal points for getting results on a limited budget also were given by Mr. Lambert.

A demonstration tour arranged by the Oklahoma City Nurserymen's Association was an interesting feature of the 2-day meeting. Technicolor moving pictures of Bellingrath Gardens, Mobile, Ala., were shown during the luncheon hour Wednesday. Slides were used with talks to help demonstrate correct landscaping. Some slides of the Longwood Gardens of the Du Pont estate, Kennett Square, Pa., were shown.

The illustrated lectures, roundtable discussions, exhibits and the opportunity to ask questions and have them answered by experts all made home gardeners quick to request that another clinic be held next fall. The exact date will be announced later, but officials are of the opinion that it will be held next October, when the weather is usually bright and favorable.

These landscape clinics, to which admission is free, are attracting larger numbers of home gardeners each year, and the number of well planned and maintained yards and lawns at Oklahoma City is increasing.

Betty H. Prim.

#### NAME MINNESOTA FRUITS.

Five new varieties of fruit are being named and introduced by the staff of the University of Minnesota this year. Four of them were produced at the fruit-breeding farm at Excelsior, and the fifth is of South Dakota origin, although it has been tested and used in breeding work for forty years at the Minnesota experiment station.

The varieties being named are: Minn. No. 714, Oriole; Minn. No. 4, Golden Spice; Minn. No. 63, Orient: Minn. No. 101, Redglow, and S.D. No. 27. South Dakota.

Oriole is a summer apple of unknown parentage which came from seed planted in 1914. It is hardy, is a little slow in fruiting and tends to annual cropping. The fruit is large, roundish, striped and splashed with red on orange-yellow ground. Ripens four days to a week before Duchess.

Golden Spice is a pear of unknown origin, vigorous, very hardy and very productive. Fruit is small but attractively colored a clear, rich yellow, often with red blush. Ripens in mid-September.

Orient, a strain of Prunus tomentosa, known as Chinese bush cherry or Nanking cherry, is self-fertile. Very vigorous, it may be grown as bush or small tree, as ornamental or

# **HEMLOCKS**

Specimen stock transplanted 4 and 5 times. Sheared and open styles. In large truckload lots. Select them yourselves. 3, 3/2, 4, 4/2 and 5-ft. sizes. We grow the finest. Write for full particulars. We are taking spring orders now. Discounts on quantity orders.

We have Taxus hicks and Taxus capitate. Also, a few Ball Carriers in stock. Saves hard lifting—less men needed.

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George Colmorgen, Prop. Rt. 84, Lake Co. PERRY, OHIO

#### LIGHSTRIM AMURENSE

		~	211	COIT		MAIONTIAR					
						P	er 100	Per 1000			
12	to	18	ins.,	br			\$4.00	\$37.50			
9	to	12	ins.,	br			3.50	32.50			
6	to	18	ins.,	liners.	*		2.50	22.50			

#### LIGUSTRUM OVALIFOLIUM 27.50

#### 18 to 24 ins., br...... 3.50 12 to 18 ins., br...... 2.50 22 50 6 to 18 ins., liners.... 2.00 15.00

# ABELIA GRANDIFLORA Per 100 ...\$ 7.50

6 to 12 ins., lining-out ..... 12 to 18 ins., lightly br..... 12.00

Order now for Spring or immediate delivery.

McMINNVILLE TREE CO. BOX 125 McMINNVILLE, TENN.

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# QUALITY JUNIPER GRAFTS

For Spring, 1950, delivery, from 21/2in, pots on Virginiana understock.

We are grafting Juniperus virginiana canaerti, glauca, pyramidiformis (Dundee), burki and keteleeri. Grafts, 40c, packing at cost.

# PAUL ARTERBURN NURSERY

ST. MATTHEWS, KY.

# **30,000 Potted Taxus Liners**

1. 3 and 3-year. Weigela Eva Rathke, transplants. Viburnum Rhytidophyllum.

HUMPHREYS LANDSCAPE SERVICE MT. STEBLING, KY.

AN

for fruit. Often bears after second year. Ripens in early July. Fruits are a little more than one-half inch in diameter, colored bright medium red.

Redglow is a plum (Burbank x Jewell) which is normally vigorous, productive and hardy. Ripens in midseason. Fruit is roundish oblong, colored a rich dark red with heavy bloom.

South Dakota is a plum which is traced back to the early plum-breeding work of Dr. N. E. Hansen. Propagating wood of the variety was brought to the Minnesota station by the late Charles Haralson in 1907, and the variety was developed there. Of the native plum type, hardy, vigorous and productive. Fruit is medium size, oval and somewhat flattened.

#### TWO NEW BLUEBERRIES.

Two new highland blueberry varieties have been announced by the United States Department of Agriculture. One of these varieties, Berkeley, produces larger fruit than any other variety in the trade, while the new Coville is a close runner-up. Both varieties were developed by Dr. George M. Darrow, principal horticulturist, United States Department of Agriculture, and Franklin A. Gilbert, research associate at the New Jersey agricultural experiment station.

Berkeley produces its big, firm, light blue berries on vigorous, productive bushes which prove to be reasonably easy to propagate. The variety is a combination of Stanley x Jersey x Pioneer and produces its fruit in open, loose clusters which ripen during midseason about a week after Stanley and a week before lersey.

The place of the latest variety in the trade to ripen is now held by the new Coville, whose berries are almost as large as those of Berkeley, are firm and have a tart flavor until fully ripe. They also have a high aroma. The loose, open clusters grow on vigorous, productive bushes which are also relatively easy to propagate.

Both varieties are recommended for trial commercially, from Maryland to New Jersey, but not farther south than North Carolina. Berkeley has shown promise in Michigan, and Coville is being studied there.

EXPANSION of the Collinsville, Va., facilities of the Myers Nursery, Dansville, Va., has been announced by Ted M. Myers, proprietor. The firm is planning to spend \$35,000 on the expansion program.

# FRUIT TREES

2 and 3-yr., 11/16-in. 2-yr., 9/16-in. 2-yr., 7/16-in. 3-yr., % to 1-in.		.40	Per 10 85,00 4,00 3,00 6,50	Per 100 840.00 35.00 25.00 55.00	Per 1000 \$350.00 300.00 200.00 500.00
Anoka Bonum Close Cortland Delicious Double Red Delicious Double Red Jonathan Double Red McIntosh Double Red Rome Double Red Stayman	Early Harvest Early Redbird Hyslop Crab Jonathan Lodi Lowry W. B. Twig Maiden Blush N. W. Greening Paragon	51 11 11	inesap inter Ba	lambo ellow De mana ansparent	
	PEACH				
9/16-in. and up. 7/16-in		.40	\$4.50 3.50 3.00	840.00 30.00 25.00	Per 1000 8350.00 250.00 200.00
Belle of Georgia Bruckett Elberta Goldeneast Golden Jubilee	Halehaven Heath Cling Hiley J. H. Hale Indian	La Li Re Si	ate Elber Izzie edhaven hipper's outhland	ta Late Red	
	CHERRY				
Early Richmond and Mo Early Richmond and Mo Early Richmond and Mo Large Montmorency, %	ntmorency, 11/16-in ntmorency, 9/16-in ontmorency, 7/16-in	81.00 	\$9.00 8,00 6,50 1,10	8 85,00 75,00 60,00 100,00	\$800.00 700.00 550.00
	PLUM		Eac	b Down 10	Per 100
9/16-in			80,8	87,50 5 6.00	\$70.00 55.00
Abundance Burbank	European Prune Mammoth Golden		ed June ickson		
	KIEFFER PEAR.	2-veer			
5; to 1-in			80.7	5 86,50 9 4,50	

## WAYNESBORO NURSERIES

WAYNESBORO, VIRGINIA

# CERTIFIED BLUEBERRY PLANTS

1-year Rooted Cuttings, 2 and 3-year Nursery Plants, All Varieties.

Propagated from stock taken from our own productive farms.

Guaranteed True to Name.

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# GALLETTA BROTHERS'

BLUEBERRY FARMS HAMMONTON, NEW JERSEY

# ROBERTS NURSERY CO

Wholesale growers of Dependable
FRUIT TREES

We solicit your list of wants. DANSVILLE, N. Y.

# FRUIT TREES

# HARRISON BROTHERS NURSERIES

G. Hale Harrison, General Manager BERLIN, MARYLAND

### SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

GOLDEN MUSCAT

also

Currants and Berry plants

FOSTER NURSERY CO., Inc. FREDONIA, N. Y.

# **Peach Varieties**

#### PEACH SPELLDOWN.

In an effort to help nurserymen improve their spelling of variety names, John T. Bregger, president of the American Pomological Society, has compiled the following list of peach varieties whose names are often misspelled. He submits the list to guide catalog compilers and others to greater accuracy in spelling names of peach varieties.

#### OFTEN MISSPELLED AS TWO WORDS

Afterglow Ambergem Dixigem Dixired Early Halehaven Fairhaven Fireglow Goldeneast Halegold Halehaven Laterose Newday Redcrest Redhaven Redrose Summercrest Sunhigh Triogem

Synonyms

Augberta

#### COMMON VARIETIES AND SYNONYMS

Variety Augbert

Early Elberta (Gleason)

Early Wheeler Fair Beauty

Fay

July Elberta

Roberta August Elberta Golden Elberta Lemon Elberta Snyder Elberta Red Bird Cling Beauty Murray's Beauty Spencer Beauty Texas Beauty Fay Elberta Gold Medal Bodine Elberta Burbank Burbank Elberta Burnett Burnett Elberta Early Elberta Golden Rose Ho-hum Jewel Kim Early Elberta Mulberry New Elberta Socala

Krummel Mayflower Mikado Rochester

Pacific Gold

Krummel October

Mountain Rose

June Elberta

#### PEACHES FOR SOUTHEAST.

Peaches grown commercially in southeastern United States should be chosen to meet the requirements of the climate as well as special requirements of marketing and competition with fruit of other regions, according to Earl F. Savage in his article "Peach Varieties in the Southeast" in the autumn issue of "Fruit Varieties and Horticultural Digest," published by the American Pomological Society.

Southeastern peach orchards grow rapidly and are short-lived; thus varieties can be discarded and new ones chosen as fast as they can be proved. Early-ripening varieties are replacing later ones in order more easily to control plum curculio and Oriental fruit moth and because early-season fruit brings higher prices. A change in consumer preference for yellow-fleshed peaches over white has caused the white-fleshed varieties to be discarded. Most canneries will no longer process white-fleshed peaches. Such old favorites as Golden Jubilee and Halehaven are being discarded because they do not ship and handle well, while J. H. Hale is passing out of favor because of low productivity.

To overcome these difficulties several new varieties, such as Dixired, Dixigem and Southland, have been developed and are gaining in popularity. Others are still under trial.

Mr. Savage names the following varieties as some of the better commercial peaches for the southeast.

#### EAST MALLING FRUIT TREE STOCKS

East Malling, I, II, IV, VII and IX.

Quince type A, B and C.

Myrobalan B.

Fruit trees on Malling stocks.

ENGLISH VARIETIES OF GOOSEBERRIES

MANTEN'S NURSERY WHITE ROCK, B. C., CANADA

# GRAPEVINES

Heavy, well rooted 2-yr. Concord and Niagara Hydrangea P.G. Peach

Write for prices.
Thorne Brewster

WILLOWBEND NURSERY
Davis Rd. Perry, Ohio

A General Line of FRUIT and ORNAMENTAL TREES and PLANTS

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# SMALL FRUIT PLANTS

Evergreens - Shrubs
Asparagus - Rhubarb
Send for Complete Trade List.
W. N. SCARFF'S SONS
NEW CARLISLE, O.

They are listed according to their

Dixired (Halehaven selfed)

Highly colored, early, yellow, clingstone. Good quality, ripening about six weeks before Elberta. Fruit medium size, round, with very light pubescence.

Erly Red Fre—White, good size, medium quality. Ripens five weeks before Elberta, when no good yellow or white peaches are available.

Dixigem (Dewey x St. John x Southhaven) — Medium size, early, yellow-fleshed with light pubescence. Ripens about four and one-half weeks before Elberta. Somewhat cling in some years; however usually quite free when ripe. Good shipper, high dessert quality and superior for canning and freezing.

# KELLY BROS.

offer for fall and spring shipment.

Apple

Sweet and Sour Cherry

Plum

All above, 1 and 2-year. Peach and Apricot, 1-yr.

Black Walnut, 3 to 4 and 4 to 5 ft. Spiraea Vanhouttei, 18 to 24 ins., 2 to 3 ft, and 3 to 4 ft.

Send for our latest wholesale list. Your surplus list would be appreciated.

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# **CHERRY TREES**

One-year-old, well branched.

MONTMORENCY.

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Since 1882.
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# Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES

Bridgman, Michigan

Yıt

11

Pearson Hiley-White flesh; plant patent 760. Trees not yet available for general distribution, but mentioned because fairly large commer-cial shipments will be made bearing on price received for Hiley type. Is an extra-early Hiley.

Redhaven (Halehaven x Kale-ven) — Yellow-fleshed, medium haven) size, usually brilliant red. Heavy thinning necessary for size. Classed freestone, but usually clings too much for commercial use, Good

pickling peach.

Early Hiley—Apparently a bud sport of Hiley: ripens about three weeks before Elberta and one week before regular Hiley. White flesh. Is replacing Hiley, especially in south

Georgia peach section.

Southland (Halehaven selfed) Round, yellow, freestone, medium to large size, ripening about two weeks before Elberta. Attractive with light red blush overlying yellow ground color. Flesh firm and slow-ripening.

Triogem (J. H. Hale x Marigold) Firm, yellow-fleshed, freestone. High quality, ripening about two and one-half weeks before Elberta. Ripens slowly, needs good culture, thinning for size. Superior for canning and freezing.

Hiley-White-fleshed; ripens about two weeks before Elberta. Overlap of Sullivan Elberta season and public resistance to white-fleshed peaches will probably prevent further plantings of this variety except for local markets.

Halehaven (J. H. Hale x Southhaven) - Small some seasons, not particularly good shipper, color too dull to be attractive. Fairly good for

processing.

Sullivan Elberta-Similar to regular Elberta, but ripens a week earlier. Is apparently much more susceptible to bacteriosis and phony peach disease than regular Elberta, but its earliness decreases amount of injury likely to occur.

Elberta-Yellow, freestone. Is still the No. 1 variety in southeast as well as entire nation. Chief objection is low quality. Is declining in some southern peach sections because of lateness, which results in greater second-brood curculio damage.

APPOINTED administrative assistant in the agricultural census branch of the census bureau, M. Trumon Fossum will aid in the 1950 horticultural census. Hoping to begin the census in January, the bureau contemplates taking a detailed census of horticultural specialties-flowers, plants, nursery products, greenhouse vegetables, bulbs and flower seeds.

# STRAWBERRY PLANTS

Certified

Grown on new land in isolated area. 30 acres of the largest and thriftiest plants we have ever grown. We are in a position to make you attractive prices on the following varieties.

> Blakemore Klonmore Klondike Missionary Tenn. Beauty

Tenn. Shipper Robinson Premier Gem Streamliner

We will ship direct to your customers if you desire. You're welcome to come and see our fields. Let us quote you on your entire needs.



# ROMINES PLANT FARMS

DAYTON, TENN.

STRAWBERRY PLANTS All leading varieties. Grown under irrigation.

Route 3

We are now booking orders for the 1949-50 season.

Will ship direct to your customers if desired.

Prices on request.

#### MULLINS PLANT FARMS

410 Brookfield Ave. CHATTANOOGA 4, TENN. Phone: 2-9955

### WE OFFER FOR FALL. 1949 OUR USUAL SUPPLY OF NURSERY STOCK

Apple Figs

Peach Pear Cherry Apricot Pecans Grapes P June Bud Peach Japanese Persimmon

**Ornamental and Shade Trees** Send us your want list; write for prices.

56 in A. A. N. Badge Book

# COMMERCIAL NURSERY CO.

Nicholson Bros. DECHERD, TENN.

**GRAPE CUTTINGS** New low prices per 1000.
Cencord, 33.75; Niagara, 34.00
Delaware, 34.50; White Elvira, 34.50
Wire-bound, 100 per bunch, expertly cut. Packing
free, Start cutting December 1.
Place orders at once, large or small.

PAW PAW PLANT CO.

#### PONTIAC NURSERY CO. Romeo, Michigan

Headquarters for Lining-out Stock. Peach, Cherry and Ornamental Shrubs.

Send your list for quotations.

# NOW OFFERING

A COMPLETE LINE OF SMALL FRUIT PLANTS

We will be glad to quote on your requirements.

ANDREWS NURSERY CO. MINN. FARIBAULT.

# WESTHAUSER NURSERIES

Specializing in Strawberries and All Cane Plants

Full Line of Nursery Stock

Let Us Quote on Your Want List.

WESTHAUSER NURSERIES SAWYER, MICH.

## RASPBERRY PLANTS

RED - BLACK - PURPLE

C. H. BENEDICT GRAND JUNCTION, MICH.

#### **GRAPE CUTTINGS**

Seedless Concord

Fredonia Also 5000 Seedless Concord vines in yr. light or lining-out grade.

Beta

C. D. WRIGHT HAMBURG, IOWA

# APPLE AND PEAR SEEDLINGS

Our seedlings have been thoroughly sprayed and are free from aphis and disease.

We are centrally located, and our shipping facilities are unsurpassed. Stock will reach you promptly for early grafting.

#### TWO-YEAR APPLE TREES

ONE-YEAR PEACH, CHERRY, PLUM and APRICOT.
All Grades.

Write for special low prices.

## L. R. TAYLOR & SONS

Topeka, Kan. Phone 35009 or 35019

# **NEW CATALOG!**

Fall, 1949, Spring, 1950, descriptive, illustrated catalog listing many varieties of Azaleas, Conifers, Heathers, etc. Available in rooted cuttings and field transplants grown in sandy soil. Write for your copy now if you haven't received one.

# MITSCH NURSERY

Wholesale Propagators and Growers of Evergreen Liners AURORA, OREGON

# YOU COULDN'T MAIL 1000 POSTCARDS

with a special offer to your prospect list

# FOR THE PRICE OF THIS SPACE

getting the attention of more than seven times as many trade buyers—the subscribers to this magazine.

# It costs only \$19.50 per insertion.

Other spaces in proportion. For advertising rate schedule, write

#### AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.

## **RHUBARB**

Chipman's Valentine
Chipman's Canada Red by the carload or less. Write for new prices.

BASS NURSERY CHADRON, NEB.

# RED RHUBARB

Large, No. 1 divisions, \$15.00 per 100. Cash with order; packing free. Write for prices on larger quantities.

> KEELER'S GARDENS SIOUX FALLS, S. D.

## **OBITUARY**

#### Paul H. Oliver.

Paul H. Oliver, 50, manager of the Zillah, Wash., branch of Mount Arbor Nurseries, died October 12. He suffered a heart attack while hunting on nursery property.

Mr. Oliver had devoted nearly thirty-five years to the nursery business, having begun his career under his father at Perry, Kan. He became associated with Mount Arbor Nurseries at Perry in 1929 and moved to the Zillah, Wash., branch in 1935. Wayne N. Welch has taken over management of this branch until a successor to Mr. Oliver can be found.

Surviving Mr. Oliver are his widow, Mrs. Cecile L. Oliver; a daughter, Paula, a brother and two sisters.

#### Pauline Crum Wise.

Pauline Crum Wise, wife of John M. Wise, founder of the Wise Nurseries, Freeport, Ill., died September 25, at the age of 75. She had suffered a long illness.

Mr. and Mrs. Wise were married at Chicago in 1896 and had shared their interest in trees and flowers throughout their married lives. They had celebrated their golden wedding anniversary in 1946.

Born at Maysville, Ky., Mrs. Wise was educated in Kentucky schools. She was an active member of the Audubon Society, and Wiseland, the family home, is a bird sanctuary.

Besides Mr. Wise, she is survived by two children, Mrs. Paul Offenhiser, Pittsburgh, Pa., and Brewster Wise, Rockford, Ill.; two sisters, Mrs. J. W. Hill, Asheville, N. C., and Mrs. Manley Hawley, Louisville, Ky., and four grandchildren.

#### Mrs. L. C. Mundy.

Mrs. L. C. Mundy, wife of Lester Mundy, Mundy Nursery, Wichita Falls, Tex., died October 14. Her death followed a long illness.

OCTOBER 30, Forest Nursery Co., Inc., McMinnville, Tenn., held the formal opening of its retail salesyard and landscape service, located on Highway 56, two miles from McMinnville

THE mailing address of George Frank & Son, growers of hardy perennials and rock plants, has been changed from East Rochester, N. Y., to Penfield, N. Y. The owner of this wholesale and retail business is Howard J. Frank.

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#### SAWDUST pH VALUES.

The pH values of many kinds of wood sawdust have been ascertained and reported by M. M. McCool in the Boyce Thompson Institute quarterly. As a result of the tests, which included yellow pine, red pine, blue beech, larch, locust, spruce, white oak, red oak, black oak, pin oak, white birch, elm, hemlock, sugar pine, redwood, maple, Japanese larch and cypress, the lowest value found was that of cypress, and the highest was that of hemlock. It was also found that the values of some of these became higher upon leaching with distilled water; thus, the pH value of a soil is likely to increase with time as some sawdusts placed in the soil are leached by rain water. The woods giving this type of sawdust were sugar pine, redwood, spruce, white oak, black oak, red oak, pin oak, maple and mixed pine shav-

In some cases, addition of sawdust to the soil was proved to raise the soil's pH value, increasing the soil's acidity. Thus, it may be this increased acidity of the soil after application of sawdust which accounts for the unfavorable results often achieved after adding sawdust to the soil

The study also revealed that wood shavings mixed with soil increase the rate of percolation of water through the soil to a greater extent than sawdust, but it was doubted that this benefit would last after a period of decomposition when the shaving particles would become finer.

#### CATALOGS RECEIVED.

#### WHOLESALE CATALOGS.

Blackwell Nurseries, Inc., Semmes, Ala.

—Azaleas and camellias; illustrated in color; 32 pages, 6x9½ inches.

Mitsch Nursery, Aurora, Ore.—Evergreens, azaleas, heathers, perennials: 16

pages, 4x9 inches.

#### WHOLESALE PRICE LISTS.

Benton County Nursery Co., Rogers, Ark.—Fruit trees, roses, evergreens, ornamental trees and shrubs, vines, perennials, bulbs; 8-page folder, 4x9 inches.

Herbst Bros., New York, N. Y.—Seeds of trees and shrubs, perennials, annual flowers.

flowers; 36 pages, 4x9 inches.

#### RETAIL CATALOGS.

Hill'N'Dale Orchards, Tupelo, Miss.-Fruit trees, small fruits, roses, ornamental trees and shrubs; 24 pages, 5x8 inches.

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Wake Robin Farm, Home, Pa.-Wild flowers and ferns; 8-page folder, 4x9

ELEVEN acres of ground have been purchased by Richard J. Patterson at Springfield, Pa., on which he is starting a nursery salesyard.

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# **Pacific Coast News**

# REDWOOD EMPIRE CHAPTER ADOPTS CREDIT POLICY.

The sixty-seventh meeting of the Redwood Empire chapter of the California Association of Nurserymen was held at the Hamilton House. Fairfax, October 11. Past President Patrick T. Flynn, San Rafael, opened the meeting and turned over the chairmanship to Leo Ihle, San Rafael, the newly elected president, who gave a report on the state directors' meeting held in September.

The directors had considered the question of landscape accounts and moved that each chapter should formulate its own procedure. President Ihle appointed Donald Perry chairman of a committee, with James Eggers and Clyde von Grafen to study the matter.

Mr. Perry then asked the chapter members whether or not they wished to make control of landscape gardeners' past-due accounts a chapter project. He said that, in his own particular case, thirty-five per cent of his business was with landscape gardeners, and that seventy to eighty per cent of these were sixty days past due; they were his poorest risk. The members unanimously agreed that something should be done, that it should be a chapter project and that this chapter's action would stimulate other chapters to follow suit.

The following resolution, submitted by Mr. Perry, was unanimously passed to be the declared policy of the Redwood Empire chapter:

1. Be it resolved, that as of the first day of January, 1950, all sales to any person or firm be billed at retail.

2. That all sales made carrying discounts shall become due and payable on or before the twentieth of the month following the date of purchase.

3. That the failure to meet payments in full, when due, shall cause a forfeiture of all claim to any discount.

4. That no discount shall be granted on any subsequent purchases so long as an unpaid balance remains.

5. That all members of the association shall notify the chapter secretary, on or before the first of each month, of any person or firm sixty days in arrears, and that the secretary shall mail a copy of a list of all such delinquent firms to each member of the organization.

6. That no member of the organization shall sell on credit terms to anyone so placed by the secretary on the delinquent list, without first ascertaining whether or not the name has been removed therefrom.

President Ihle appointed a committee composed of James Eggers, Donald Perry and himself to draft a letter, in the name of the Redwood Empire chapter, to be sent by each nursery to all of its landscape gardener accounts.

Continuing his report, President Ihle announced that the directors of the California Association of Nurserymen appointed Mrs. Glen Frates. at a salary of \$100 a month, for the next six months, to work out a publicity program in the east bay area. Her job will be to call on local newspapers in the area and pave the way for acceptance of news and publicity for the local chapters. Since most of the members do a large amount of advertising in the newspapers, this should be a relatively easy task. President Ihle appointed Clyde von Grafen to work with Mrs. Frates in the Santa Rosa area, and Donald Perry in Marin county.

The president appointed James Eggers, James Gaddis and Clyde von Grafen to nominate three members for the Redwood Empire chapter board of directors. It was suggested that they should be nominated and elected according to geographical distribution.

Further, commenting on the proceedings of the directors' meeting,

# FOR 1949 SEASON

Fruit Trees
Small Fruits
Fruit Tree Seedlings
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and a general assortment of other nursery stock.

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# **RICH & SONS NURSERY**

Hillsboro, Oregon

# DEL RANCHO FORTUNA FRUIT TREES

GRAPEVINES

P. O. Box 548 McFARLAND, CAL. President Ihle said it was a good idea to employ the universal estate clause in one's bulletins, since it becomes an important item from a legal viewpoint. He reported that advertising was also discussed and favorably considered for the individual nursery. Donald Perry said that at the convention he found there was an excellent opportunity to have effective advertising produced by competent men at a cost of approximately \$50 to \$100 a year.

Directors of the Marin Art and Garden Center wanted to know whether or not the next garden show should be held in the spring or fall. Mr. Perry and Mr. Eggers thought that, even though there are more colorful display plants in the spring, sometime early in September would be best, since the weather undoubtedly would be more favorable. Rudolph Flynn brought out the point that a fall show would not be in conflict or competition with the Oakland spring show.

Ernest Munson, Sec'y.

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#### WASHINGTON NOTES.

The Krause Nursery & Greenhouse Co., Spokane, has been reorganized as two separate firms. One of these will be known as Krause Nursery and the other as Krause Greenhouse. The new Krause Nursery will be operated by Adolphe Krause, who was associated with the original firm and who will have charge of the landscaping work. A brother, Larry Krause, formerly engaged in electrical work, will supervise the office. They plan to do general landscaping work and operate a retail salesyard. To facilitate this work, a new office and storage building has been constructed.

Mr. Falick, of Falick's Nursery & Greenhouse, Spokane, announces that, because of ill health, he is retiring from the business. The firm has been purchased by Theodore Santen, who will operate it under the original name. A new residence has been built, and additional improvements are being planned for a greenhouse

and salesvard.

As an addition to its plant production facilities, Stanek's Nursery, Spokane, has purchased ten acres of ground at Twenty-ninth and Regal streets. Fencing has been completed, and plans are now being made to build a 60x80-foot storage shed. Additional improvements will include a store building and implement shed. Most of the nursery's stock is being moved to this new location.

A new, 40-acre park area, to be known as Shadle park, will be do-nated to the city of Spokane. A \$550,000 construction project will eventually be included in the development of the area, which is located in northwest Spokane. The land is being given to the city by Mrs. Josie Shadle in memory of her husband, who was a prominent Spokane businessman. Another park was also given to the city by Mrs. Shadle in 1930. This older park was named Comstock park for her father. A \$35,000 landscaping project, the first stage in the construction of the new Shadle park, was recently completed by Stanek's Nursery, Spokane.

Severely ill in St. Elizabeth's hospital, Yakima, is Ray Beam, vice-president of the May Nursery Co., Yakima. Mr. Beam is expected to remain in the hospital for another month.

Alexander McNaughton, for many years a nurseryman in the northwest, was recently awarded a medal by Great Britain's King George VI. The medal was given to Mr. McNaughton by the British consul, at Seattle, for service, during the war years, for various British-American war relief



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# CAMELLIAS and AZALEAS

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# FRUIT and NUT TREES

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projects. At the age of 67, Mr. Mc-Naughton still operates a growing establishment known as McNaughton's Azalea Nursery, Seattle.

#### PINE SEEDLING ROOT ROT CONTROL.

Two fumigants, chloropicrin and ethylene dibromide, have been discovered to be effective in controlling root rot in southern pine nursery beds, according to Ralph M. Lindgren and Berch W. Henry in the United States Department of Agriculture's Plant Disease Reporter. Incidental to their experiments, they also discovered a new and effective weed killer.

As a result of careful experiments in which sixteen deep soil treatments in standard nursery beds were compared with an untreated plot, these two fumigants were most effective, while the fungicides used did not prove to be effective at all. This would indicate that a contributory cause of the root rot, which is so troublesome in southern pine seedling beds, might be traced to nematodes, and further research along these lines is going forward.

Formaldehyde and allyl alcohol were next runners up in effectiveness against the rot, but were significantly inferior to the fumigants. However, it was discovered that two usual weedings were eliminated, and further weed growth was greatly reduced in plots in which allyl alcohol was used. A better stand of seedlings also resulted in the alcohol-treated beds, probably because the chemical had reduced early damping off of seedlings. However, further experimentation is necessary to be sure that the alcohol is not deleterious to the soil. The fumigants had no weedkilling effect, although they were superior in controlling the root rot.

Research in both phases of these experiments will be continued.

RETIRED in 1944, E. R. Eisley, Santa Cruz, Calif., is now helping his sons operate their new nursery, Eisley Bros., 1706 Sequel avenue, Santa Cruz.

SOON to be opened one half mile east of Coquille, Ore., is Cooper's Gardens Nursery, which is owned by Mr. and Mrs. Cooper, of Cooper's Gardens, Coquille.

BURGLARS entered the nurseryflorists' shop of Eubanks Bros., Waxahachie, Tex., recently and stole an entire day's receipts. They forced the safe to get cash and checks.



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Cultivated Conifers, by L. H. Bailey. Systematic record of 1000 species and varieties. Discusses culture, propagation and uses. 404p. (1933). \$10.00

Handbook of Fertilizers, by A. F. Gustafson. Source, composition, effects and application of commercial fertilizers. 172 p., revised edition. (1944)

Pruning Trees and Shrubs, by E. P. Felt. Besides discussing general practices, gives specific advice on pruning trees, shrubs, hedges and fruits, line clearance and tree repair. 236 p., illus. (1941).....\$2.50

Azaleas and Camellias, by H. H. Hume. Contents: The camellias and their varieties, propagation, camellias and azaleas in the garden, soils and their preparation, planting, cultivation, care, feeding, growing in pots and tubs, pests and troubles. 90 p., illus. (1931)......\$2.00

 Manual of Cultivated Trees and Shrubs, by Alfred Rehder. Invaluable handbook, completely revised and enlarged. 1000 p. (1940).......\$12.00

Hortus Second, compiled by L. H. and E. Z. Bailey. Brings Cyclopedia of Horticulture up to date in condensed form. 778 p. (1941)....\$7.50

Maintenance of Shade and Ornamental Trees and Shrubs, by P. P. Pirone. Up-to-date, original and comprehensive—on pruning, surgery, pest control and other care. 436 p. (1948)..\$6.50

The Book of Shrubs, by Alfred C. Hottes. Tells how and when to plant, prune and spray and gives various lists of shrubs for many uses. Covers propagation, transplanting, pruning, soil requirements, etc. 438 p. Fourth edition.

Planting Design, by Florence B. Robinson. Modern and practical treatment of theories of landscape composition. Chapters cover color theory, use of color, texture, mass grouping, planting about buildings and public plantings. 215 p. Illustrated by sketches. (1940)......\$3.00

Hardy Chrysanthemums, by Alex Cumming. Discusses selection of varieties for different purposes, soils and fertilizers, pruning and disbudding, winter protection, propagation, hybridizing, cloth shading, diseases and pests. 202 p., 45 illus. (Revised 1945)......\$2.50

Propagation of Trees, Shrubs and Conifers, by Wilfrid G. Sheat. Gives concise data on English propagating methods. Discusses the propagation of ornamental trees and shrubs, giving exclusive attention to commercial practices. Includes every well known genus, with propagation of particular species and varieties described individually where necessary. 479 p. (1948) \$7.50

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Red, yellow, lavender and pink.
BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

#### CAMELLIAS

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BLOOMING-SIZE CAMELLIAS.

40 Fine Varieties—Some to 3½ ft.

MANY WITH FLOWER BUDS.

Priced from \$2.75 to \$7.50, DELIVERED.

Shipped in paper pots ready to slip into
clay pots for immediate sale or for benching for corsage flower production—ALSO

POT-GROWN CAMELLIAS.

1 AND 2-YEAR PLANTS

OF THE BETTER KINDS.

WE PAY THE EXPRESS AND PACK FREE.

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SHOWING VARIETIES AND SIZES.

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632 S. Baldwin Ave. Temple City, Calif.
Wholesale Growers of Fine Camellias.
For 15 years—The Best from the Far West.

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COLORADO BLUE SPRUCE.
Highest Quality Liners and Finished Trees.
PRICES EACH, Order lots 10 to 50 for delivery to customer's truck or full truck or carloads, F.O.B. Nursery. Add packing charges for small lots vequiring packing and crating.

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H. W. WEBR
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LINING-OUT STOCK. PLAY SAFE: Place your order Please send cash with order or 25 p cash on advance orders, except in in where customer has established er our books. Deliveries fall, 1949, and 1950. Please order in multiples of 25 o See special notice below listing. Biota aurea nana, Berckmann's, 24,-in. pots 24,-in. pots	early. er cent stances edit on spring. r more. Each per 100 \$0.20
24,-in. pots 24,-in. pots Biota bakeri, 24,-in. pots 21,-in. pots 21,-in. pots Heavy field-grown plants: 5500 Biota bakeri, 12 to 18 ins. 2500 Biota bakeri, 18 to 24 ins.	.18
Heavy field-grown plants: 2500 Biota bakeri, 12 to 18 ins 2500 Biota bakeri, 18 to 24 ins Biota Bonita,	.30
*214-in. pots *212-in. pots Special while they last—	
Heavy field-grown plants: 2500 Biota Bonita, 8 to 10 ins 2500 Biota Bonita, 10 to 12 ins Cedrus deodara,	
4 to 6 ins., liners. 6 to 8 ins., liners. 12 to 18 ins., liners, mostly branched 2½-in, pots Jun, chinensis pfitzeriana and	.15 .17½ .25 .18
2¼-in, pots Jun. chinensis pfitzeriana and Jun. chinensis pfitzeriana compacta, 3 to 4 ins., liners. 4 to 6 ins., liners. 5 to 8 ins., liners. 2¼-in., pots 2½-in, pots Jun. chinensis sylvestris.	.10 .12 .15 .18
*2¼-in. pots *2½-in. pots	.25 .27 ½
3 to 4 ins., liners. 4 to 6 ins., liners. 2½-in. pots 2½-in. pots	.12 .15 .18 .20
3 to 4 ins. liners. 4 to 6 ins. liners. 6 to 8 ins. liners. 224-in. pots. 234-in. pots.	.20
4 to 6 ins., liners	.12 .15 .18 .20
6 to 8 ins. liners. 2%-in. pots 2%-in. pots Jun japonica virginalis. 2%-in. pots 2%-in. pots Jun. virg. keteleeri. 2%-in. pots 2%-in. pots 2%-in. pots	.18
2¼-in. pots 2½-in. pots Taxus cuspidata, spreading,	
3 to 4 ins., liners. 4 to 6 ins., liners. 5 to 8 ins., liners. 2 \(\frac{1}{2}\)-in. pots  Taxus cuspidata intermedia.	.06 .08 .10 .15
4 to 6 ins., liners	.12 .18 .20
3 to 4 ins. liners. 4 to 6 ins., liners.	.10 .12 .17 %
Taxus media browni, 3 to 4 ins., liners. 224-in. pots 225-in. pots 7 faxus media hicksi, 4 to 6 ins., liners.	.12 .18 .20
2½-in. pots	.15 .18 .20
4 to 6 ins. liners. 2¼-in. pots 2½-in. pots Abelia grandiflora.	.12 .18 .20
4 to 6 ins., liners. *2½-in, pots 2½-in, pots Berberis sargentiana, 3 to 4 ins. royed cuttings	.05 .12 .15
4 to 6 ins., rooted cuttings. 2¼-in. pots. *2¼-in. pots.	
3 to 4 ins., liners. 4 to 6 ins., liners. 2 1/4 - in. pots 2 1/4 - in. pots	.05 .07½ .12 .15
4 to 6 ins. liners	.07 1/2
*1% to 2%-in, plant bands Camellia Sasanqua, Maiden's Blush. 2%-in, pots	
2 14-in pots 2 14-in pots 2 15-in pots 2 15-in pots 2 15 18 ins., field-grown 1 2 to 18 ins., field-grown Elseagnus pungens fruitlandi.	
*4 to 6 ins., liners. *2½-in. pots *2½-in. pots Euonymus patens seiboldi,	.10 .12 .15
*4 to 6 ins. liners *2½-in. pots *2½-in. pots *2½-in. pots Euonymus patens selboldi. 4 to 6 ins. liners 5 to 8 ins. liners 2½-in. pots Gardenia fortunei. 4 to 6 ins. liners 5 to 12 ins. liners licers 8 to 12 ins. liners	.08 .10 .12
4 to 6 ins. liners. 8 to 12 ins. liners. llex cornuta burfordi.	.08
4 to 6 ins. liners. 8 to 12 ins. liners. llex cornuta burfordi. 214-in. pots (Continued in next column.)	.15

(Continued from previous column.)	Each
llex crenata.	per 100
2¼-in, pots	. 80.15
24-in. pots Jasminum floridum,	.15
4 to 6 ins., liners	.06
6 to 8 ins., liners	.08
*2 1/4 -in. pots	.10
Magnolia grandiflora,	
2¼-in, pots	.10
2 1/2 -in, pots	.12
Nandina domestica.	.10
2½-in. pots	.12
Pyracantha belli,	
*2¼-in, pots	.20
Virburnum tinus.	
3 to 4 ins., liners	.05
4 to 6 ins., liners	.06
6 to 8 ins., liners	.08
Berberis thunbergi atropurpurea.	45
4 to 6 ins., rooted cuttings	.05
6 to 8 ins., rooted cuttings 8 to 12 ins., rooted cuttings	.18
2¼-in. pots	10
Buddleia Ile de France,	120
6 to 8 ins., liners	.06
8 to 12 ins., liners	
Forsythia spectabilis.	
24-in. pots	.10
Magnolia soulangeana nigra,	0.5
2½-in. pots	.35
12 to 18 ins., rooted layers	.75
Prunus glandulosa,	. 10
4 to 6 ins. liners	.06
4 to 6 ins., liners	
4 to 6 ins., liners	.05
6 to 8 ins., liners SPECIAL NOTICE: Items marked	.06
SPECIAL NOTICE: Items marked	by as-
terisk (*) above available only for	spring,
1950, delivery. All items not so mark be delivered either fall, 1949, or spring	ed can
to suit customer's wishes. Please rem	i, loov,
this. For the prices at which our	potted
this: For the prices at which our liners are quoted they will be shipped	to you
in New Red Neponset Paper Pots.	This
method of shipping protects the root s	ystem,
retains moisture and keeps the root b	all in-
tact. Of course, stock packed and ship	ped in
this manner costs a little more mone	y, but
the insurance it buys and the ultimate	more
you obtain in your nursery rows are than worth it. Trial will positively co	nvince
you.	
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T. G. OWEN & SON, Inc. Columbus, Miss.	
LINERS.	
Spring Delivery	
	Each
Azalea Mollis, cream, branched, XX.	
6 to 9 inc 6d	80 9E

LINE	
Spring I	
	Eac
Azalea Mollis, cream, l	branched, XX.
6 to 9 ins., fid	
Camellia, Herme, 21/2-1	n. pot
Camellia, Cheerful, 21/2	-in. pot
Daphne	
Odora, X	
Cneorum, X	
Mezereum, 4 to 6 in	s., fld
Mezereum, 6 to 8 in	s., fld
Mezereum, 8 to 10 in	s., fld
leather	
Bruckenthalia, XX.	2 to 4 ins., frame .1
Med. White, XX, 2 to	4 ins., frame1
Mrs. Maxwell, XX, 2	to 4 ins., frame 1
St. Kaverns. XX, 2 tm	4 ins., frame1
Carnea, X. flat	
Mediterranea Hybrid,	X. flat
VeVilla X flat	
VeVilla, X, flat King George, X, flat	
Springwood White, X	. flat
Thuja woodwardi, X,	
Thuja pyramidalis, X.	
liburnum burkwoodi,	
Viburnum burkwoodi,	
ithospermum (Heaver	
F.O.B. Nursery, pa	aked from COD
FOUR STAR	
Hi-way 99 a	
Rt. 3. Box 3529	Edmonds, Wash

Rt. 3, Box 3529	Edmonds,	Wash.
LINING-OUT 8	TOCK.	
ARBORVITAE	Per 100 P	er 1000
Chinese Pyramid, 1-1, 3 to		\$45.00
Dwarf Oriental, 1-1, 3 to 8		45.00
Chinese, 1-1, 3 to 8 ins		35.00
Chinese, 2-0, 3 to 6 ins SPRUCE		25.00
Norway, 2-0, 2 to 6 ins	2.50	20.00
Norway, 2-1, 2 to 6 ins	4.00	35.00
Black Hills, 2-1, 2 to 4 ins	4.00	35.00
Black Hills, 2-1, 4 to 6 ins		45.00
Colorado Blue, 2-1, 1 to 3 i		35.00
Colorado Blue, 3-1, 3 to 6 1		50.00
Black, 2-1, 2 to 6 ins	4.00	35.00
Black, 3-1, 6 to 10 ins	5.00	45.00
Mugho, 2-0, 2 to 4 ins	3.00	25.00
Table Mountain, 1-0, 2 to 4	ing. 2.50	20.00
Scotch, 2-0, 3 to 8 ins	3.00	25.00
Terms, 2 per cent for c	ash with o	
R. 2, Box 293 G1	and Haven.	Mich.

	LINING-OUT STOCK.	
	EVERGREENS, POTTED.	
	Pot size	Per 100
Taxus	cuspidata 21/4 to 21/4-in.	\$22.50
	hicksi	
Thuja	pyramidalis24-in.	20.00
Thuja	pyramidalis, Imp 24-in.	20.00
	woodwardi21/2-ln.	17.50
Viburn Cas	tum burkwoodi	coat.

#### LINING-OUT STOCK

	· .	
Seedlings	100	Per 1000
Acer palmatum, 3 to 6 ins	5.00	\$45.00
transplanted understock	8.00	75.00
Euonymus alatus, 3 to 6 ins	5.00	45.00
transplanted understock Euonymus alatus, 3 to 6 ins Fagus sylvatica, 8 to 10 ins Fagus sylvatica purpurea.		75.00
8 to 10 ins1	5.00	
8 to 10 ins	5.00	40.00
Laburnum anagyroides.	2 50	30.00
Magnolia glauca 2 to 4 ing	4.00	35.00
Picea excelsa, 6 to 8 ins	5.00	45.00
Picea pungens glauca, 3 to 4 ins.	5.00	45.00
Pinus nexilla, 2 to 3 ins	5.00	35.00 40.00
Pinus mugo, 6 to 8 ins	7.50	60.00
Pinus nigra austriaca, 4 to 6 ins.	6.00	50.00
Pinus strobus, 4 to 6 ins	4.00	35.00
Laburnum anagyroides. 4 to 8 ins Magnolla glauca, 2 to 4 ins Picca excelsa, 6 to 8 ins Picca excelsa, 6 to 8 ins Picca pungens glauca, 3 to 4 ins Pinus fixellis, 2 to 3 ins Pinus mugo, 4 to 6 ins Pinus nigra austriaca, 4 to 6 ins Pinus sylvestris, 4 to 6 ins Pinus sylvestris, 4 to 6 ins Piseudotsuga douglasi.	4.00	35.00
6 to 8 ins Pseudotsuga douglasi,	5.00	45.00
8 to 12 ins	7.50	60.00
Taxus cuspidata capitata.		90.00
Taxus cuspidata capitata.	0.00	20.00
6 to 8 ins., tr	0.00	40.00
inula orientalia (understocks).		
8 to 10 ins., tr  Tsuga canadensis, 6 to 8 ins., tr	7.50	60.00
6 to 8 ins., tr	2.00	100.00
Twice transplanted cuttings i	rom	Per 100
Juniperus communis hibernica	\$2.25	\$20.00
Juniperus communis		
succica nana	2.25 2.75 2.75 2.75	20.00
Taxus media cliftoni	2 75	25.00 25.00
Taxus media hatfieldi	2.75	25.00
Taxus media, spreading.  Taxus media cliftoni.  Taxus media hatfieldi.  Taxus media hicksi.  Taxus media hicksi.	2.75	25.00
Taxus media Moon's columnaris	2.75	25.00
Taxus media Vermeulen	2.75	25.00
Taxus media Moon's columnaris Taxus media Moon's columnaris Taxus media vermeulen Taxus media Vermeulen Well established cuttings from P Andromeda japonica Euonymus carrierei Ilex crenata bullats.	214-11	n. pots
Andrewske terrories P	er 10	Per 100
Euonymus carrieres	1.75	15.00
Ilex crenata bullata	1.75	15.00
Ilex crenata helleri	1.75	15.00
Ilex glabra	1.75 1.75 1.75	15.00
Juninerus communis		15.00
suecica nana		
	1.75	15.00
Juniperus depressa plumosa	1.75	15.00
suecica nana Juniperus depressa plumosa Juniperus excelsa stricta Juniperus glauca hetzi	1.75 1.75 1.75	15.00 15.00
Juniperus glauca hetzi Juniperus horizontalis	1.75	15.00 15.00 15.00
Juniperus glauca hetzi Juniperus herizontalis Bar Harbor Juniperus horizontalis	1.75	15.00 15.00
Juniperus glauca hetzi. Juniperus horizontalis Bar Harbor Juniperus horizontalis glauca wiltoni	1.75 1.75 1.75	15.00 15.00 15.00 15.00
Juniperus glauca hetzi. Juniperus glauca hetzi. Juniperus horizontalis Bar Harbor Juniperus horizontalis glauca wilton! Juniperus pfitzeriana	1.75 1.75 1.75	15.00 15.00 15.00 15.00 15.00 20.00
Juniperus glauca hetzi. Juniperus glauca hetzi. Juniperus horizontalis Bar Harbor Juniperus horizontalis glauca wilton! Juniperus pfitzeriana	1.75 1.75 1.75	15.00 15.00 15.00 15.00 15.00 20.00 15.00
Juniperus glauca hetzi. Juniperus glauca hetzi. Juniperus horizontalis Bar Harbor Juniperus horizontalis glauca wilton! Juniperus pfitzeriana	1.75 1.75 1.75	15.00 15.00 15.00 15.00 20.00 15.00 20.00 20.00
Juniperus glauca hetzi. Juniperus herizontalis Bar Harbor Juniperus horizontalis glauca wiltoni Juniperus pfitzeriana Taxus baccata repandens Taxus cuspidata Taxus cuspidata capitata.	1.75 1.75 1.75	15.00 15.00 15.00 15.00 15.00 20.00 15.00 20.00 15.00
Juniperus excess atrica.  Juniperus kalauca hetzi.  Juniperus horizontalis  Bar Harbor  Juniperus horizontalis  glauca wiltoni  Juniperus pfitzeriana  Taxus baccata repandens  Taxus cuspidata capitata.  Taxus cuspidata nana	1.75 1.75 1.75 1.75 2.25 1.75 1.75 1.75	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00
Juniperus excess atrica.  Juniperus kalauca hetzi.  Juniperus horizontalis  Bar Harbor  Juniperus horizontalis  glauca wiltoni  Juniperus pfitzeriana  Taxus baccata repandens  Taxus cuspidata capitata.  Taxus cuspidata nana	1.75 1.75 1.75 1.75 2.25 1.75 1.75 1.75	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00
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Juniperus giauca hetzi. Juniperus kalauca hetzi. Juniperus horizontalis Bar Harbor Juniperus horizontalis giauca wiitoni. Juniperus phitzeriana Juniperus della phitzeriana Juniperus de	1.75 1.75 1.75 2.25 1.75 2.25 1.75 1.75 1.75	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00
Juniperus giauca hetzi. Juniperus giauca hetzi. Juniperus herizontalis Bar Harbor Bar Harbor Juniperus horizontalis Juniperus horizontalis Juniperus phitzeriana Taxus baccata repandens Taxus cuspidata capitata Taxus cuspidata capitata Taxus cuspidata nana Taxus media browni. Taxus media horizontalis Taxus media horizontalis Taxus media Moon's columnaris Taxus media Vermeulen Taxus media Vermeulen Thuja occidentalis globosa Thuja occidentalis globosa	1.75 1.75 1.75 2.25 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.7	15.00 15.00 15.00 15.00 20.00 15.00 20.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00
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Juniperus giauca hetzi. Juniperus kalauca hetzi. Juniperus herizontalis Bar Harbor Juniperus horizontalis giauca wiitoni. Juniperus prizontalis giauca wiitoni. Juniperus prizontalis giauca wiitoni. Juniperus prizontalis giauca wiitoni. Juniperus prizontalis Taxus baccata repandens Taxus decentala Taxus media browni. Taxus media browni. Taxus media hon's columnaris Taxus media hon's columnaris Taxus media vermeulen. Taxus media vermeulen. Thuja occidentalis globosa novum	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00
Juniperus giauca hetzi. Juniperus giauca hetzi. Juniperus	1.75 1.75 1.75 1.75 1.75 1.75 1.76 1.75 1.75 1.75 1.75 1.75	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00

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Colo. Blue Spruce, X, 4 to 8 ins \$10.	00 \$90.00
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Canadian Hemlock, X, 4 to 8 ins. 7.1	
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Mugho Pine, X, 4 to 6 ins 5.0	00 40.00
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American Red Pine, X.	
6 to 12 ins 8.0	00
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Two-year pot-grown liners, ready for field.
Stop field loss; plant stock with pot ball. All
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Per 100 offerings grown two years in 2½-in. pots.

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2000 Thuja pyramidalis 25.00

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2000 Juniper, Firish 25.00

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SEQUOIA SEMPERVIRENS. (California Redwood.)

Well established stock. In 24-in, pots. \$15.00 per 100, F.O.B. Monrovia

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Taxus capitata, 4 to 6 ins., tr	022.00
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Aronia arbutifolia, 8 to 15 ins., tr	15.00
Berberis Julianae, 4 to 6 ins., tr	25.00
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Send for new Fall List.	
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JUNIPERUS VIRGINIANA.
GRAFTING UNDERSTOCKS.
We have a really fine batch of these plants in two grades, the first mechanically transplanted potted last year and established for immediate grafting. Both can be shipped with a "B" certificate.
Selected pencil thickness, B.R., \$50.00 Established understocks from

Established understocks from pots, pot balls individually wrapped, \$100.00 per 1000.

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# EXTRA-HEAVY TRANSPLANTS. Ready for field.

Ready to field.

Ready for field.

Per 100

Taxus cuspidata, 2-yr., 10 to 12 ins., T. \$30.00

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Taxus sapitata, 3-yr., 12 to 15 ins., T. 35.00

Taxus hicksi, 2-yr., 10 to 15 ins., T. 35.00

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Beautiful specimen American Arborvitae, green leaved, dense foliage, 4 to 6 ft, Globe Arb., up to 30 ins. Pyramidal Arb., 3 to 4 ft. Spiny Greek, 2 to 3½ ft. Colorado Spruce. Norway Spruce, etc. Come, see and dig. THE KINDIG NURSERY Elkhart, Ind.

EVERGREENS.

Exceptionally nice 2-yr. field-grown Juniperus glauca, burki, Dundee and canaerti.

All grafted on Virginiana understock, \$1.25 each, B&B. F.O.B. nursery.

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EVERGREENS.
Taxus cuspidata (Spreading yew).
3-year bedded liners, 10 to 12 lns., ready for field planting, \$30.00 per 100, \$250.00 per 1000.

NICK'S NURSERY
Near Louisville Anchorage, Ky.

CHINESE ARBORVITAE SEEDLINGS. Grafters, 1/8 to 3/8-in, cal., 7c each. 1-yr, adigs., 6 to 10 ins., \$50.00 per 1000. -yr, adigs., hedge size, 18 to 24 ins., 10c each. LUKE NURSERY, Pauls Valley, Okla.

DOUGLAS FIRS.

8 to 12-inch Douglas Firs.
\$7.50 per 100, \$60.00 per 1000.

COASTAL GARDENS Sheridan, Ore.

#### FRUIT TREES

Anoka
Cortland
Cortla

McMinnville, Tenn.

APPLES, 2-YR.

3 to 4 ft., 20c ea.; 4 to 5 ft., 30c ea.;

5 to 6 ft., 35c ea.

Summer Champion, Lodi, Ben Davis, Blood
Red Delicious, Blood Red Jonathan, Yellow
Delicious, Blood Red Stayman, Yellow Transparent.

3 to 4 ft.. 25c ea.; 4 to 8 ft.. 35c ea.;

3 to 4 ft.. 25c ea.; 4 to 8 ft.. 35c ea.;

Summer Champlon, Ben Davis, Winesap,
Early Harvest, Redbird, Blood Red Jonathan,
Lodi, Blood Red Stayman, Red June, Blood
Red Delicious, Maiden Blush, Yellow Transparent, Horse, Yellow Delicious, Delux, Turley, Mammoth Black Twig, Anoka, Black
Ben Davis, Arkansas Black, Blood Red
Rome Beauty, Ada Red, Dolgo Crab, Florence
Crab. Crab. Extra-nice, well branched trees. Good

caliper.
BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

Rogers, Ark.

FRUIT TREES.

A few thousand 3-year-old Apple: Jonathan, Double Red Jonathan, Yellow Delicious, Red Delicious, York, Turley, Wealthy, Rome Beauty, Double Red Rome Beauty, Grimes-11/16-in., 35c; 1 to 1½-in., 75c; 1½ to 1½-in., \$1.15 each, in 1000 lots.

A few hundred Pear: Seckel. Duchess.
Bartlett—1-in., 85c; 1½-in., \$1.25 each, in 100 lots.

CALAMONDIN.
LIMEQUAT.
KUMOUAT.
KUMOUAT.
LEMON.
ORANGES, assorted varieties.
GRAPEFRUIT, assorted varieties.
SATSUMA.

GLEN SAIDS GIEN SAIDS MARY, FIR.

PECANS.

Stuart. Mahan, Success, Moneymaker, Moore, Burkett, Schley, Western Schley and other popular and profitable catalog items. Thomas Black and Willson Wonder English Walnuts, Eureka and Tanenashi Persimon, Everbearing Fig. Trees. Write for advance trade list.

ARP NURSERY CO.

Tyler, Texas

Box 867 Tyler, Texas

CHERRIES—Good height—well branched.

MONTMORENCY.
Size 8/16-in., 60c ea. Size 11/16-in., 70c ea.
BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

FRUIT AND NUT TREES of all kinds.
Write for wholesale list. Thanks, FITZGERALD'S NURSERY, Stephenville. Tex.

We offer for fall, 1949, our usual supply of nursery stock. Apple Peach Pear Plum Cherry Apricot

Grape Quince buds

Grape Quince buds

Also ornamental and shade trees.

Send us your want list.

Write for pricess.

JOPPA NURSERY CO.

Joppa, Ala.

GRAP

VINCA MINOR (Hardy Myrtle).

Have several hundred thousand made up.
Large clumps, 20 to 30 canes, well rooted.
Prompt shipment, \$4.00 per 100, \$35.00 per 1000. H. C. WAUGH Cheshire, Ohlo

PACHYSANDRA TERMINALIS. 

#### HARDWOOD CUTTINGS

HARDWOOD CUTTINGS.
From Hardy Northern-grown Shrubs and
Trees. Delivery after December 1. From our
own plantings and blocks checked yearly for
accuracy, Cut 7 inches.

Per	1000
Aronia melanocarpa	4.00
Cydonia japonica	6,00
Cornus paniculata	4.00
sibirica	4.00
lutea (yellow bark)	6.00
amomum	4.00
Forsythia intermedia	3.00
spectabilis	3.00
Elder, Golden	6.00
Cutleaf	4.00
Red-berried	5.00
canadensis	3,00
Hydrangea P.G.	5,00
Hydrangea A.G.	5.00
Privet, Amur	3.06
Regel (true)	3.00
Ibota	3,66
Honeysuckle, morrowi	3.00
bella albida	3.00
bella rosea	3.06
tat, rosea	4.00
korolkowi	4.00
zabeli	5.00
syringantha	5.06
maacki	4.00
Diervilla trifida	1.00
Philadelphus grandiflorus	3.00
Mt. Blanc	3.00
Bouquet Blanc	3,00
coronarius	3.00
lemainei	5.00
Physocarpus opul, aureus	3.00
Physocarpus opul. nanus	3.00
Sorbaria sorbifolia	3.00
Spiraea billiardi	3.00
froebeli	3,00
thunbergi	3.00
vanhouttei	3.00
trichocarpa	3,00
Snowberry, White	3.08
Lilac, rothomagensis	5.66
Viburnum dentatum	4.00
Poplar, Lombardy	3,60
Willow, Niobe	3.06
Wisconsin	3.66
Golden	3.00
Pussy	3.00
Rosa rugosa Belle Poitevine	7.00
Rosa rugosa Hansa	7.00
	5.00
	5.00
wareana	5.00
Packed free. Cash with order, please.	De-
livery in good order guaranteed.	*
THE SCOTCH GROVE NURSERY	
Scotch Grove, Iowa	
2001011 212121 12112	
DEITZED HIMDED CHEMING	

PFITZER JUNIPER CUTTINGS.
6 to 10 ins. long, not trimmed, Well packed.
\$10.00 per 1000, Cash with order.
KRONE'S FLOWER SHOP
1221 Grand Ave.
Fort Smith, Ark.

#### HARDY PLANTS

DAISY DIVISIONS.

Strong, field-grown stock; Majestic, 18c;
Mt. Shasta, 12c; Supreme, 8c; White Swan, 5d.
DELPHINIUM BELLADONNA IMP,
1-yr, field seedlings, \$25.00 per 1000.
IVIES IN 3-INCH POTS.
English, 18c; Baltic, 18c; Hahn's, 18c.
Euonymus coloratus, 2-inch pots, 8c.
Euonymus patens, 2-inch pots, 10c.
STRATFORD GARDENS, Delaware, O.

Felix Crousse, cherry-red; Mons. Jules Elie pink; Mons. Martin Cahuzac, darkest red; Baroness Schroeder, white; Karl Rosenfield, crimson. Strong 3 to 5-eye divisions, \$5.00 per 10, \$40.00 per 100, or \$350.00 per 1000. Terms: Cash with your order, please.

PAYNE DAHLIA FARMS
Route 5.

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NOVEMBER 15, 1949		
SUNNY BORDER'S		
SUNNY BORDER'S QUALITY PERENNIALS	Š.	
The following are always in stro	BE de	emand
and not too easily mass-produced	Per	Per
	10	100
Anemone hupehensis, early pink .!	2.50	\$20.00
Anemone September Queen, double red	2.50	20.00
Anemone japonica alba, tall, single white	2.50	20.00
	2.50	20.00
Anemone japonica Whirlwind, tall, semiwhite	2.50	20.00
Buddleia White Cloud,	2.00	25.00
hardy white	3.011	20.00
stems, golden-yellow flowers, 3 to 4 ins. across	2.50	20. 111
Dianthus June Carmine, new,		
2¼-in. pots	2.50	20.00
Geum Princess Juliana,		
hardy orange Hibiscus, giant Sunny Border	2.50	20,00
hybrids, sensational large	0 50	***
flowers and lovely colors	2,50	20,00
flake, blooms 100 per cent Monarda Croftway Pink,	2.50	20.00
clear pink	2.50	20,00
wine-red Penstemon Rose Elf, clear rose-	2.50	20.00
colored, compact and neat	2.50	20.00
Violet Royal Robe	2.50	20,00
Send for our complete trade SUNNY BORDER, Inc. Kensing		Conn
		SHOW THE STATE OF
MAMMOTH FLOWER PANSY F Dwarf Swiss Giants.	LAN	TS.
	alf-g	rown;
large flowers and many blooms at \$5.50 per 1000.	mat	turity.
Swiss Giants, Mixed.		
Dark green plants, long white excelled color range, \$5.50 per 1000.	root	8, 1111-
Donovan's Special.		
One-half to two-thirds grown, a	pre	ferred
rainbow color range, \$5.50 per 100	mexe	celled
plant at maturity, wide and trainbow color range, \$5.50 per 10 Our Own Mammoth Flower and Plant Special.	er	
Broad, dark green leaves and st	ema:	long
white thick roots, color range a	nd s	ize of
flower will satisfy at maturity, \$5.5 All plants state inspected.	0 per	1000.
Transplants of the above varie	ties	about
Transplants of the above varie to bud, \$10.00 per 1000. PALACE GARDENS, since		
General Delivery Kalama	1904	Mich
	auu,	MARCH.
HARDY PERENNIALS, Immediate Shipment		
Strong rooted cuttings. Per 16 Aster Frikarti (Wonder of	00 Pe	r 1000
Aster Frikarti (Wonder of Staefer)		\$75.00

General	Delivery	Kalamazoo,	Mich.
		CRENNIALS.	
		e Shipment	
Strons	rooted cuttin	igs. Per 100 P	er 1000
	ikarti (Wonde		
			\$75.00
Lythrun	(Morden's P	ink) 6.00	50.00
Hardy C	lump Verbena		00.00
		6.00	50.00
Comme	PLANE-VIE	W NURSERY	00.00
		rt. II. I.	
	Meabor	to Att. At	

Newport, R. I.

COLORFUL MUMS.

Strong field-grown clumps of 150 colorful hardies from our test gardens. Available this fall for winter propagation. Write today for descriptive price list.

PRAIRIE SOUTHWEST FLORETUM R. F. D. 1, Box 103 Fall River, Kans.

PERENNIALS

New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

CARROLL GARDENS

Westminster, Md.

PHLOX.

PHLOX.
See our large classified ads in the October
i issue, or write for complete list of phlox
dd other perennials. Strong, 1-yr., all been in bloom. HENRY LE POIRE

Zeeland, Mich. Route 2 Zeeland, Mich.

HARDY MUMS—Field Clumps.
1 each of 20 varieties, \$5.00
1 each of 50 varieties, \$10.00
Or will exchange for Peonles, Glads, Dahlias,
Hardy Phlox, or what have you?
BROADLANDS NURSERY & ORCHARDS
R. R. 7, Box 448 Terre Haute, Ind.
USE WELLER'S HARDY PHLOXES
For propagation.

For propagation.
Now is the time to make them.
See our catalog or ask for it. 70 varieties to select from. WELLER NURSERIES CO., Inc. Holland, Mich.

BLEEDING HEARTS. Per 100

Pansies, perennials and rock plants in ide variety. Send for catalog. PITZONKA'S PANSY FARM Bristol, Pa.

#### ROSEBUSHES MULTIFLORA JAPONICA

DE-E	YED ROOTED CUTTINGS FOR
	BUDDING.
(Write f	6 to 11 mm., \$35.00 per 1000 or special prices on larger quantities)
HEAVY	Also a Large Supply of -ROOTED MULTIFLORA CUTTINGS

HEAVY-ROOTED MULTIFLORA CUTTINGS FOR FENCE ROW PLANTING. 4 to 6 mm., \$30.00 per 1000 (Write for special prices on larger quantities) December 1 delivery—Cash with order (Freight or Express Delivery)

PETERSON & DERING wers Scappoose, Ore. Rose Growers We have a limited quantity of Crimson Rambler Roses in surplus at this time and offer them as follows:

LAKE'S SHENANDOAH NURSERIES
Shenandoah, Iowa

Shenandoah, Iowa

We have the following excellent No. 1,
2-year-old, field-grown rosebushes, above our
regular requirement. We offer them for delivery this fall only at \$35.00 per 100.
1500 Eldorado, yellow
1500 Konigin, satiny pink
1500 Killiarney, Dbi. White, pure white
1500 Mrs. W. C. Miller, salmon-rose
2500 McGredy's Scariet, crimson-scarlet.
Ask for prices on the entire amount.
BROOKVILLE NURSERIES
Glen Head, N. Y.

ROSEBUSHES.
Large selection of Hybrid Tea Roses, budded on Multiflora Japonica stock.
For fall or spring delivery.
Send for list.
CHARGLYN NURSERIES
P. O. Box 575
Painesville, O.

P. O. Box 575

ROSEBUSHES—2-yr. plants, grown right, graded right, packed right. Very complete assortment varieties. Ask for price list and book your requirements now.

ROSEMONT NURSERIES

D. L. Thompson, Mgr.

Por 829

Box 839 Tyler, Tex.

NORTHERN OHIO FIELD-GROWN ROSES.

Write for list.

LESTER F. SQUARE NURSERIES

Wholesale Growers.

Paineaville, Ohio

See our display ad in this issue.
OZARKS PLANT FARMS. Inc.
Seminole Dr. Springfield, Mo.

CHINESE CHESTNUTS.
(Hemming Strain.)
Available for immediate delivery at 50c per pound, for seed, express prepaid from Trappe, Md. Write CHARLES ARENSBERG, 1404 First National Bank Building, Pittsburgh, Pa.

TREE SEEDS. TREE SEEDS.
Collectors and extractors of evergreen seeds. Finest-quality coniferous forest tree seeds and open cones from the Great Lakes region. LESIJE B. RHOADES & SON Lock Box 96 Merrillan, Wis.

#### SHRUBS AND TREES

RED JAPANESE MAPLE SEEDLINGS. Carefully selected for good red color. Per 100 

TAXODIUM DISTICHUM—We can furnish this scarce and beautiful tree in sizes 3 to 4 ft. and up to 7 ft., B&B. Our plants are bushy and straight.

ACER SACCHARUM—We have many thousands of these in all sizes from 3 to 12 ft. The finest lot we ever saw.

THE WING NURSERIES

Mechanicsburg, Ohio

2-YEAR LINING-OUT STOCK. 

NURSERY	GROWN	STOCK	
		Per 100	Per 1000
Cornus florida.			
White Flowering	Dogwood		
2 to 3 ft., br		\$25.00	\$200.00
3 to 4 ft., br		30.00	250.00
Hydrangea panicula Peegee Hydrange	ata grand	iffora.	
6 to 12 ins., c		8.50	75.00
12 to 18 ins., c		9.50	85,00
18 to 24 ins., c		. 11.00	100.00
Ligustrum ovalifoli	um.		******
California Privet.			
8 to 24 ins., 1-yr	C		20.00
Ligustrum sinense, Amur River Soutl	h Privat		
8 to 24 ins., 1-yr.			8.00
Juniperus virginian	a.		100
Red Cedar.			
6 to 9 ins., tr., x.			40.00
9 to 12 ins., tr., x.			50.00
9 to 12 ins., tr., x. 12 to 18 ins., tr., x. All stock below	********		80.00
	is mrst-	quality (	collected
stock.		Per 100	Per 1000
Tsuga canadensis.	×-		
Canadian Hemloc	K.	00.00	
4 to 8 ins., s			\$15.00
8 to 12 ins., s			25.00
12 to 18 ins., s		4.50	40.00
Ilex opaca.			
American Holly.			
4 to 8 ins., s			20.00
8 to 12 ins., s		3.50	30.00
12 to 18 ins., s	********	5.50	50.00
Kalmia latifolia.			
Mountain Laurel.		0.00	00.00
4 to 8 ins., s		2.50	20.00
8 to 12 ins., s		4.00	35.00
12 to 18 ins., s	* * * * * * * * *	6.00	55.00
			Each
12 to 18 ins., 3 br.	and up		
18 to 24 ins., 3 br. a	and up	*****	
Rhododendron max	imum.		
Rosebay Rhodode	endron.	Per 100	Des 1000
4 to 8 ins., s		Per 100	L-6L 1000
4 to 8 ins., s	******	4.00	35.00
8 to 12 ins., s	*******	6.00	55.00
12 to 18 ins., s		0.00	Each
			each
12 to 18 ins., 3 br. a	na up		26
18 to 24 ins., 3 br. a	na up	77.6.77	1.00
12 to 18 ins., 4 cane	s and up,	D&D	1.00
18 to 24 ins., 4 cane	s and up,	Doc B	1.20
Azalea calendulaces	a, Flame,	and	
Azalea nudifiora, Pi	myster L.	Ower.	0.4
6 to 24 ins., liners.	and we		20
12 to 18 ins., 3 cane 18 to 24 ins., 3 cane	s and up.	*******	95
Is to E4 ins., 3 cane	s and up.	DAD	1 00
12 to 18. ins., 4 cane	s and up.	D&B	1.00
CUMBERLAND	PLATEA	UNURS	ELEC E
York Route		Crossvill	e, Tenn.

HEDGE PLANTS.
Privet, Amur River North
2 to 3 ft. 2 and 3 canes \$ 50.00
3 to 4 ft., 4 canes and up 60.00
Privet, California
12 to 18 ins., well branched 25.0
18 to 24 ins., well branched 40,00
2 to 3 ft., well branched 50.0
3 to 4 ft., well branched 60,0
Privet, Ibota 2 to 3 ft well branched 55.00
Privet, Regel Border
24 to 30 ins., well branched 160.0
30 to 36 ins., well branched 185.0
3 to 4 ft., well branched 200.0
Lagerstroemia indica
Improved watermelon-red and pink
Crape Myrtle Per 10
15 to 18 ins\$12.0
18 to 24 ins 15.0
24 to 30 ins 20.0
30 to 36 ins
3 to 4 ft 35.0
4 to 5 ft 50.0
5 to 6 ft
Spiraea vannoutiei
2 to 3 ft., well branched \$15.00 \$140.00
3 to 4 ft., well branched 20,00 185.00 TWITTY NURSERY
P. O. Box 777 Texarkana, Tex

LINING-OUT STOCK. LINING-OUT STOCK.

Euonymous vegetus, 1-yr. pots. sps. \$18.00
Malus atrosanguinea, 1-yr., gfts. 25.00
Malus purp. Lemoine, 1-yr., gfts. 25.00
Malus scheideckeri, 1-yr., gfts. 25.00
Pyracantha lalandi, 5-in., pot. 65.00
Sorbus aucuparla, 1-yr., 1½ to 2 ft. 12.00
Viburnum carlesi, 1-yr., pot gft. 40.00
Taxus cuspidata, 2-yr., pot. 22.50
Taxus cusp. capitata, 1-yr., pot. 25.00
Taxus med. hicksi, 1-yr., pot. 22.50
Taxus cusp. capitata, 1-yr., pot. 22.50
Taxus in following varieties are 5-yr., twice tr., 10 to 12 ins., at \$46.00 per 100:
Cuspidata, cusp. browni, cusp. nama, intermedia, media hatcheld and media hicksi.

THE COTTAGE GARDENS

Lansing 15, Mich.

Ligustrum

| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

XUM

#### SHRUBS and TREES-Continued

LINING-OUT STOCK.	
	Per 10
Pfitzer Junipers, 21/4 -in, pots	\$20.0
Abelia grandiflora, 1-yr., field-grown.	
12 to 18 ins., \$2.50 per 10	
18 to 24 ins., 3.50 per 10	30.0
Redbud, Cercis canadensis	
12 to 18 ins	3.00
18 to 24 Ins	. 4.0
2 to 3 ft	. 6.00
Cotoneasters, 1-yr., field-grown	
Dielsiana. 8 to 12 ins	20.00
Dielsiana, 12 to 18 ins	. 25.00
Divaricata, 9 to 12 ins	. 18.00
Zabeli, 9 to 12 ins	
Azaleas, 214 -in. pots, clipped once	
Flame	. 15.00
Snow	
Hinomayo	
	Per 16
Beethoven, large, mauve	\$1.00
Strauss, salmon-rose	1.00
Sibelius, orange-red	
Palestrina, ivory-white	1.06
Schubert, light pink	
Buddleias	Per 10
Dubonnet, No. 1	
Med	2.50
Charming, No. 1	2.76
Med	2 36
Farquhar, No. 1 Med.	2.76
Med.	2 36
Ile de France, No. 1	3.00
Med.	
Cash with order, or 25 per cent, l	halance
O.D. Packed free for cash with ord	ler
ARRY NURSERIES, Signal Mountain	
realist and acceptances, engineer adounted	or welling

MIMOSA (SILK TREE) ALBIZZIA JULIBRISSIN

7000	6		0	12	ir	18.								\$ 40.00
														70,00
5000														
4000														180.00
3000	3	to	4	ft									25.00	230,00
													8.	

These trees are propagated from the best deep pink-flowering trees that we know of in Oklahoma. It cost more to grow them this way, but we strive for permanent satisfaction. This should mean not to yound your customers. Remember we have a construction of the cost of the

REMOVAL SALE. On 20 acres of nursery stock, Medium to large sizes of 40 different varieties including Norway Maples, Taxus, Arborvitae, Ginkgo, Oaks and Lindens, Write us for our price list.

SWAN RIVER NURSERY
615 E. Main St. Patchogue, L. I., N. Y.

				R SPECI.	
2 to 3	ft				1.50 each
IK	E HA	WKE	RSMIT	H NURSI	ERY
		Winel	Testine Person	Tenn	

MIMOSA SEEDLINGS,
Pink-blooming, 6 to 12 ins., \$2,50 per 100;
12 to 18 ins., \$5.00 per 100; 500 and up. 20
per cent discount. Make 6 to 10-ft, trees in

NOBLE NURSERY

VEGETABLE PLANTS

CHIVES.
From outside beds.
Per 100, prepaid, \$2.50
Per 1000, prepaid, \$2.50
TRAUERNICHT NURSERY CO.
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#### OAK WILT DISEASE.

[Continued from page 17.]

and appearance of symptoms varied considerably.

#### Spread of Disease.

From a single infected tree in an oak stand, the disease appears to spread in a more or less circular pattern to adjacent trees, a few to a considerable number dying each year. Field observations indicate that healthy oaks immediately adjacent to diseased trees are almost certain to become infected; at the same time, the disease may appear in an oak a few hundred feet to several miles distant from any wilt-infected tree. It seems probable that a single wilting tree may serve as a source of infection to oaks both in the immediate vicinity and in distant areas. Susceptibility apparently has no relation to site conditions; infected trees have been found on dry hilltops, on slopes and along watercourses. Nor is the disease restricted to certain age groups, since wilting oaks in all age classes, from young seedlings to mature trees, have been found.

The disease appears to be spreading more rapidly in Iowa and Illinois than in regions farther north. In Wisconsin a forest tract of fifty acres,

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for example, might contain only one small area of wilting trees, while in Iowa tracts of similar size often contain several areas of dead and dying oaks, and generally these areas are quite large. In one Illinois woodland of approximately thirty acres, infection developed in three separate areas during the summer of 1949, and, although this tract was closely inspected the previous year, no wilting oaks were discovered. In another Illinois forest area of about 160 acres, wilting trees were found last summer in five distinctly separate locations.

#### Damage from Wilt.

The oak wilt disease already has caused an appalling amount of damage. At Madison, Wis., there are wilting and dying oaks in many of the residential areas. Dead and dying oaks dot the forests of the university arboretum; clearings were noted here and there from which oaks killed by the wilt had been removed. Many more have died in the forests adjacent to the study plots; two dying oaks were seen in the picnic grounds of the north beach.

In Pilot Knob state park, a forested tract of 380 acres near Forest City. Ia., the damage that oak wilt can cause is illustrated impressively. From the tower on Pilot Knob, well above treetop level, oak trees in all stages of the wilt disease can be seen in every direction. When viewed during th summer, the brown and gold and tan of wilting foliage, together with the whitened trunks of trees, dead for a year or more, stand out in striking contrast against the dark green background of the surrounding forest. It is estimated that there are 8,000 to 10,000 wilt-killed trees standing in the park, and that at least twenty per cent of the oaks still living are infected. According to Harold Cole, park custodian, and Paul Hoffman, of the pathology department, Iowa State College, approximately 1,000 dead oak trees have been removed each year for the past seven years.

Street and lawn trees in sections of Fort Dodge, Ia., have suffered severely from oak wilt. Wilting oaks were seen in many other sections of the state; the disease appears to be well established at Mason City, Dolliver Memorial state park, Cedar Rapids, Marengo, Iowa City and Wilton Junction, just west of Daven-

From Moline, Ill., north and east along the Rock river to Oregon, Ill., dying oaks were noted in many of the forests and wood lots adjacent to the highway. Similar conditions pre-

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vail along state route 64 to within a few miles of Chicago. Wilt-infected trees have been found in the vicinity of Wheaton, Lemont, Tinley Park and other sections of Cook county.

The gravity of the situation hardly can be overemphasized. The oak wilt disease is spreading, apparently with increasing rapidity, and the entire hardwood belt, wherever oaks are found, may become its range. It is a menace to every oak tree in the land. It is as deadly as clm phloem necrosis. and in its over-all effects it is alarmingly reminiscent of the chestnut blight.

#### Possibilities of Control.

No infected tree in the red oak group has been known to recover. It has been suggested that drastic pruning might control the disease in trees of the white oak group when symptoms appear in only one or two iso-

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lated branches, but results so far are not encouraging.

No curative or preventive treatments attempted thus far have been effective. Beyond the fact that the causal agent is the fungus, Chalara quercina, little is known about the disease. It is not known how the disease is carried from an infected to a healthy tree. Complete sanitation. careful removal of diseased trees as soon as infection becomes apparent, is the only procedure suggested at present as a possible means of checking further spread of the disease. It is not known definitely whether or not this method will be effective.

There is urgent need for the establishment of a research program with sufficient funds and personnel to conduct further study of the disease and to develop, if possible, better control methods than now exist. Because the oak wilt disease is of national importance, the logical agency to conduct a program of this nature is the federal government; specifically, the division of forest pathology and division of forest insect investigations of the United States Department of Agriculture bureau of plant industry, soils and agricultural engineering, at Beltsville, Md. These divisions functioned successfully in studies of the Dutch elm disease and elm phloem necrosis; to date, however, no funds have been allocated for the purpose of studying the oak wilt disease. If the importance of this disease can be brought sufficiently to the attention of legislators, government departmental heads and other responsible federal authorities, it is reasonable to assume that adequate funds will be allotted for such studies. The need for the research program is great; the time it should be started is now. If there is undue delay in initiating such a program and carrying it through to a successful conclusion, the oaks may follow the chestnuts into the oblivion of lost re-Sources



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# **Peach Pit Tests**

#### EFFECT OF DRY STORAGE ON PEACH PIT VIABILITY.

Peach pits of a California drying variety, Lovell, in recent years have been used as a seed source for peach seedling rootstocks. In this paper the term "pit" refers to the stony peri-carp and enclosed seed, while the term "seed" is applied when the seed is separated from the stony pericarp. Large quantities of Lovell pits are available, and the seedlings grown from them are sufficiently different from most of the peach varieties now propagated to be readily distinguishable from the budded trees. paper is a preliminary report of tests to determine the effect of dry storage for one and two years on the retention of viability of the seed and on the growth of the seedlings from such seeds and was published as journal paper No. 741 of the New York state agricultural experiment station.

#### Materials and Methods.

Lovell peach pits of the 1944 harvest, which had been stored in an open shed for one year, and of the current harvest year were obtained in the fall of 1945 from Kelly Bros. Nurseries, Inc., Dansville, N. Y. After soaking in water for twentyfour hours, 4,000 pits of each lot were planted in shallow trenches in the nursery. Each trench was covered with a layer of moist peat moss and with five to six inches of soil ridged over the moss. The ridge was smoothed down in early spring so that only a few inches of soil were left as a cover for the seeds. The remaining pits of the original shipment were stored in closed steel drums in a well ventilated shed to be used in subsequent years.

About December 15, 1945, lots of 2,300 and 2,400 pits of the 1944 and 1945 harvest, respectively, were taken from the steel drums, soaked for twenty-four hours in water and stratified for afterripening in moist, clean pine sawdust at a temperature of 35 to 40 degrees Fahrenheit. At the end of a 120-day period, each lot was inspected. Sprouted seeds were sorted out and immediately planted to the nursery row, with the same treatment as in the previous year. Pits which had not cracked naturally

Prepared by Karl D. Brase, New York Geneva, this paper was presented before a recent meeting of the American Society for Horticultural Science at Chicago and published in the proceedings of the society.

after 140 days were cracked mechanically. Poor seeds were discarded, and sound ones were planted.

Additional pits of the 1946 harvest were obtained in early October, 1946. Lots of 1,000 each of the 1944, 1945 and 1946 harvest years were planted in the same way, and the remaining newly harvested pits were stored in the manner previously described. Also, beginning about December 15. identical lots, as used for fall planting. were afterripened and after a 120day period were examined, and sprouting seeds were at once planted.

For comparison with the Lovell, one-year-old Carolina Natural pits were included in the 1946-1947 test. To determine the approximate germination, tests by the excised embryo method were made prior to fall planting in 1945, 1946 and 1947 by C. E. Heit, seed investigations division. New York state agricultural experiment station. Geneva.

Differences existed in the quality of pits from each harvest year, and judging by the appearance and per-

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centage of split pits present, lots harvested in 1944 and 1946 were superior to those of 1945. In a sampling of 7,500 seeds from the 1944 harvest. 2.4 per cent were found to have split pits; 5.7 per cent of a sample of 6,895 of the pits from the 1945 harvest were graded out as worthless. Lots obtained in 1946 and 1947 were of excellent quality.

Weight loss occurred during dry storage. Such loss was greatest during the first year of storage. In twenty different samplings a difference of six ounces per 500 pits was found. The same number of newly harvested but dry pits weighed five pounds and six ounces, whereas those



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that had been stored for one year weighed only five pounds. There was only a slight weight loss under the storage method employed during the second storage year.

#### Excised Embryo Method.

Germination tests by the excised embryo method, made before fall planting, indicated a rather rapid decline in the germination of Lovell pits when stored dry over a 2-year period. After three years of dry storage none of the excised seeds showed growth

In all viable seeds of newly harvested pits the epicotyl developed into a shoot and the hypocotyl into a root. Similar growth responses, although in fewer instances, occurred with viable seeds after one year of storage. After the second year in storage growth responses of viable seeds were weak, and in no case did shoot growth occur.

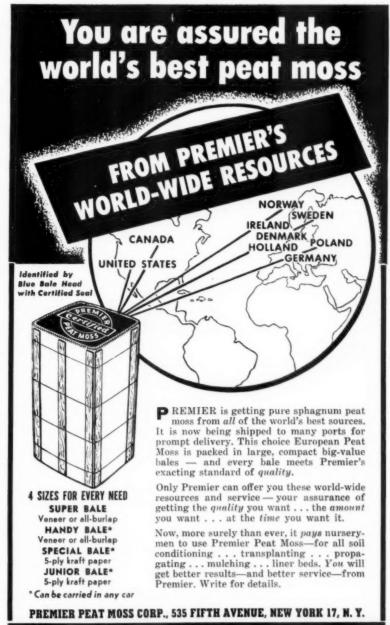
#### Fall-planted Pits.

During the two test years, fallplanted, newly harvested Lovell pits that had not been previously afterripened in moist sawdust gave the best stands in the nursery row.

The stand from one-year-old pits stored dry was twelve per cent lower in 1946 than that from newly harvested ones. The second test year showed a further decline with a stand of 16.2 per cent less than in 1946. At the same time, the stand from pits of the 1945 harvest, after one year of dry storage, was 8.3 per cent lower than the previous year, and 1,000 pits of the current harvest (1947) produced 718 seedlings. One-yearold Carolina Natural pits giving an approximate germination test of fortytwo per cent by the excised embryo method produced, when fall-planted, 437 seedlings, or a stand about as good as the germination test indicated. Usually the germination test indicates a germination better than actually obtained in the field

#### Spring-planted Seeds.

Fall-planted pits naturally afterripened in the nursery row gave better seedling stands than did artificial afterripening and planting the sprouting seeds in the spring. Thus, in 1946, stands in the nursery row were ten per cent lower with one-yearold seeds and 7.7 per cent lower with new seeds than stands from fall planting. In 1947, seedling stands of the Lovell were, with 2-year-old seeds, 15.1 per cent lower; with one-year-old seeds, 27.1 per cent lower, and with new seeds, 22.8 per cent lower than those of fall-planted pits. Afterripened Carolina Natural one-year-old



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seedlings gave a 12.6 per cent lower stand than when fall-planted.

#### Growth of Seedlings.

In both test years, newly harvested seeds showed earlier seedling emergence than seeds stored one and two years, respectively. Furthermore, during the early part of the growing season, seedlings from the new seeds showed greater vigor than those from one and 2-year-old seeds. differences in vigor were also noticed in the excised embryo germination tests. Beginning with the middle of July, the growth differences gradually disappeared, and at budding time in early September all seedlings appeared uniform in height. Evidently the greater number of seedlings per foot of row from newly harvested Lovell seeds was responsible for the fact that these seedlings did not maintain their earlier advantage.

#### Summary.

The tests indicate that the viability of Lovell pits decreases with age during dry storage and that pits stored for more than one year have a reduced planting value. It is also shown that fall planting gave better seedling stands during two successive test years. So far as labor is involved, fall planting of pits is easier than planting afterripened sprouting seeds in the spring. Furthermore, danger from contamination is less in fall planting, since in the planted row the individual pits are not in cantact with each other as during stratification for afterripening. Once the seed has been afterripened it appears to be extremely susceptible to disease. Contamination is more likely to occur if seeds must be disturbed and transferred from the afterripening medium to the soil. Field planting of apparently healthy sprouting seeds gave at best only a seventy-five per cent survival.

The Lovell variety has a relatively long afterripening requirement. A large number of afterripening pits do not crack after 120 days of stratification. The number of cracking pits and sprouting seeds is again directly related to the age of the pits used. Thus, 1,000 pits of the 1946 harvest, when afterripened for 120 days, gave in the spring of 1947 664 sprouting seeds, whereas the same number of one and 2-year-old pits treated in an identical way gave only 170 and 92 sprouting seeds, respectively, at the same date. Similar observations have been reported with Elberta pits.

Seeds which, after 140 days of afterripening, have to be excised from the stony pericarp appear to be, even if sound, of doubtful planting value.



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Weather and soil conditions no doubt influence the stand of seedlings from such excised sound seeds. The test year 1946 furnished ideal weather and soil conditions in the spring, but only a twenty-five and twenty-four per cent seedling stand was obtained from excised, sound and afterripened seeds. In the spring of 1947, weather and soil conditions were adverse, and seedling stands were affected correspondingly. Thus, seedling stands from excised seeds were from five per cent to zero.

Although tested for only one year,

it appears that the loss in viability during dry storage is less with Carolina Natural pits than with pits of the Lovell variety.

CLARENCE ALDRICH, Aldrich's Nursery, Farmington, Mich., has left to spend the winter at Miami, Fla.

HAVING operated a landscape business before the war, A. H. Christiansen, 9105 James avenue, south, Minneapolis 20, Minn., is starting a 12-acre nursery.

#### PLANT NOTES.

[Continued from page 23.]

stand frost, while that from its northernmost stations in Japan would no doubt be hardy in all except the coldest parts of this country.

#### Erigeron Compositus.

A reader states a problem as follows: "I am looking for a tiny rock garden plant, not too difficult to grow, that has a long blooming season. Can you help?"

There are, no doubt, a number of plants that would answer this purpose, and I can think of at least five without exercising much gray matter, but I do not recall one better than Erigeron compositus to answer all these requirements. In fact, if I were restricted to one small fleabane, I am sure this one would be my choice.

That is not only because of its long blooming season, which usually lasts from May until the frosts of autumn remind it that it is time to cease its labors, but also for its lovely, muchdivided, gray foliage. That foliage in inch-high tufts would alone be worth growing the plant. I have had the species several times from several sources, usually with white or rather dirty lavender flowers, the former color an enchanting flower and the latter not so enchanting. But I had once, and think it would yield itself again to a little searching, a form with inch-wide flowers of clear pale lavender. Best of all the admirable traits of this alpine fleabane is its ease of culture in eastern gardens. Some losses were experienced here every time we grew the plants if we ran into a month or so of dry weather. but they came through ordinary weather without harm, and the ones in frames, which were watered more or less regularly, were no trouble at all. Like most gray-leaved plants, the fleabane is safest in a gritty, well drained soil, and, like many alpines, it likes a little shade in this climate during the middle hours of the day. When in bloom, it is not much more than two inches tall, making it fit for the choicest company in the rock garden. It is easily grown from springsown seeds, from division of old stools and from cuttings.

#### The White Snakeroot.

As this note was written in late October, a clump of white snakeroot. Eupatorium urticaefolium, or E. ageratoides, blooming in its lightly shaded corner, cried out to be mentioned as a likely candidate for the gardener who carries his activities right up to the last possible moment of the growing season. It has been in bloom since August, producing flat

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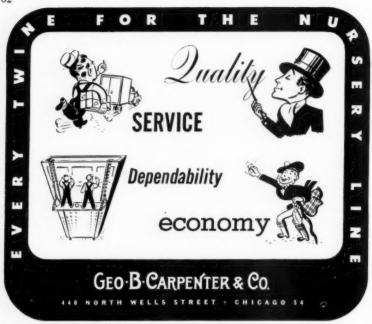
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#### CHEMICAL WEED CONTROL FOR CONIFER BEDS.

A chemical preparation distributed under the name of Stanisol has been found to reduce effectively the weeding problem of the nurseryman in pine seedling beds, according to a report entitled "Chemical Weed Control for Conifer Seedlings and Transplants," by P. W. Robbins, B. H. Grigsby and B. R. Churchill, which appeared in a recent issue of the quarterly bulletin of the Michigan agricultural experiment station, East Lansing.

While the use of chemicals for weed control is not new, experimental results up to the present time have not proved practical enough, in field application, to be widely accepted by nurseries. For tests conducted in the spring of 1946 a series of weed control plots in one-year-old seedbeds of Norway and white spruces, jack pines, Douglas firs and Balsam firs and in transplant rows of northern white cedars, white spruces and red pines were established. A two per cent solution of sulphuric acid, a five per cent solution of phosphoric acid, Dow selective weed killer, 2,4-D and Stanisol were used. Of these materials, the trials indicated that Stanisol, a petroleum product of the naphtha series, containing approximately ten per cent of aromatic compounds, distributed by the Standard Oil Co. of Indiana, was the only chemical that would control the weeds and not harm the conifer trees.

Stanisol was tested more intensively during the summer on conifer seedlings which had made one month to six weeks' growth. The areas sprayed during 1946 included 2,000 square feet of white pines and 600 square feet of ponderosa pines and 400 square feet of Norway spruces. The spray was applied on warm bright days, using a back-pack sprayer and a fog nozzle. The naphtha was applied full strength and only at a rate heavy enough to wet the weed leaf surfaces. One-half hour after the application, the weed leaves curled up, and no trace of the Stanisol could be seen, since the material which had not penetrated the leaves had evaporated. Curly dock, lamb'squarters, common chickweed, purslane, dandelion, crab grass and pigweed were killed. Common ragweed,

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quack grass and June grass were damaged but not killed. Even though all weeds were not killed, the results in the seedbeds were considered most favorable, particularly since there was no damage of the seedlings. Weeding was reduced but not eliminated.

For a later test June 26, 1947, a warm day, 6,400 square feet of 10day-old white pine seedlings were sprayed with Stanisol, using four to 2,400 square feet. The gallons to 2,400 square feet. The same day 2,000 square feet of oneyear old white pines, which had been sprayed in 1946, were also sprayed at the same rate.

Three days after the treatment eighty-four per cent of the weeds in the 10-day-old seedling beds and fifty-six per cent of the weeds in the one-year-old beds were dead. The weeds in the one-year-old beds were killed wherever the density of the pine seedlings did not protect the leaf surface of the weeds. Three days after spraying, one of the white pinc beds was weeded of all living weeds in one hour. An equal area of unsprayed white pine beds required five and one-half hours to remove all weeds. Both beds were weeded by the same man. Examination three days after spraying revealed no noticeable damage to the pine seedlings. Twenty-four days after germination. and fourteen days after spraying, the white pines showed damage of 15.4 per cent on one counting plot and 15.5 per cent on a second plot. The year-old pines showed no damage.

June 30, 6,000 square feet of white pines and an equal area of ponderosa pines were sprayed with Stanisol immediately after the mulch was removed and before the seed coats had been shed from the cotyledons. The ponderosa pines showed no damage, and only 1.2 per cent of the white pine seedlings were damaged.

July 7, twenty-four rows of 2-yearold red pine seedlings, which had been machine transplanted June 12, 13 and 14 and cultivated twice, were sprayed with Stanisol. The weeds, predominantly lamb's-quarters and crab grass, were small, and the spray killed them so effectively that no row weeding was necessary. Examination of the trees July 22 revealed no damage.

Thus it was found that Stanisol would effectively reduce the weeding problem and cause little damage if applied while the seed coats were still on the cotyledons, or if applied after the trees had reached one year of age. Stanisol is effective for the control of weeds in transplant rows if the spray is applied while the weeds are small. Enough of the material should be applied to wet the

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leaves of all weed plants. One gallon per 600 square feet is a suggested rate of application, but more may be required when weed growth is

Some differences in the tolerance of various species of conifers have been found, and small-scale trials on species other than ponderosa and white pines are suggested before treating large areas of young seed-lings. Low spraying pressures, from fifty to seventy-five pounds, are adequate for weed control. Pressures in excess of 100 pounds may cause injury to the seedlings and should not he used

#### ARBORVITAE WEEVIL.

Phyllobius intrusus is a new arborvitae weevil which has been discovered to be infesting arborvitae nursery stock in Rhode Island. Reports of the insect, which is indigenous to Japan, have also been made from Maine, Massachusetts, Vermont, Connecticut, New York and Pennsylvania, and it is being found in increasing numbers now that it is identified. Heretofore, it has been confused with other common weevils Results of the extensive research on this insect have been published, recently, in the Rhode Island agricultural experiment station bulletin 305. entitled "The Arborvitae Weevil," by Theodore W. Kerr, Jr.

Damage is done to arborvitae by both larvae and adults, since the insect remains on the host plant throughout its life cycle. The adults emerge from the soil in early or mid-May and may be found in the field as late as July 20. They feed on the tender terminal growth in the top third of the tree, only lightly here and there, so that the damaged spots do not show a heavy concentration in one place. Damage consists of tiny, irregular cup-shaped depressions at the ends of the twigs, around which the plant tissue dies.

Eggs are laid from late May through the end of July, and the larvae hatch within thirteen to seventeen days, depending upon the temperature of the soil. Once hatched, they feed on the roots of the arborvitae. It is possible that they may so severely prune the roots of a plant that it will not survive digging and transportation to the customer.

Adults of this weevil are black beetles whose bodies and wings are covered by metallic green scales and fine short hairs. They are from five and one-half to six millimeters long. The larvae are white with light brown heads and, when in a recumMAN

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bent position, usually assume a crescent form.

Control of the arborvitae weevil can be accomplished by applying DDT to the foliage of the host plant just as the adults appear, and before they lay their eggs (about eight days after emergence of the females from the soil). If spraying is done during this period of emergence, one-half pound of wettable fifty per cent DDT in 100 gallons of water should prove effective.

# MAGNOLIAS FROM STEM CUTTINGS.

[Concluded from page 8.]

apart in the open ground. We found that the cold weather had killed practically every cutting which had not made that important first step toward new top growth. All the other cuttings, even those with a small amount of soft growth which had been made late in the fall, came through beautifully. The cuttings developed this year into strong, vigorous plants, none less than fifteen to eighteen inches in height with two, three and even four canes for each plant. They will be lined out in the open field this spring. We have successfully rooted M. soulangeana and M. soulangeana nigra, these being the easiest to root. M. stellata and M. stellata rosea can be rooted quite successfully, but not with the same high percentage of success as the soulangeana varieties. We have rooted M. lennei in small quantities, but we found M. wilsoni difficult to root in quantity. We are still experimenting with these more difficult species, for we feel it should be possible to root all magnolias if we once find out just how to do it.

One final point: We have demonstrated to our own satisfaction that this method of propagating magnolias is entirely successful and practical, and it is of interest to note that our cost accounting shows the unit cost of production from rooted cuttings to be exactly half that of propagations.

gation by grafting.

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#### ROT-RESISTANT LOCUSTS.

While the black locust has long been favored for its durability as fence post material, the more rot-resistant varieties have been given attention by scientists of the United States Department of Agriculture. Theodore Scheffer, of the bureau of plant industry, and Henry Hopp, formerly of the Soil Conservation Service and now with the office of foreign agricultural relations, carried out tests on locust wood on Long Island, N. Y., where several varie-ties grow. These included the muchmentioned shipmast variety, the recently recognized Flowerfield, which is also a sprout-reproduced (clonal) variety, and the unselected common locust.

The investigators tested small blocks of heartwood from forty-eight trees of various sizes and kinds. They observed that on the average the Flowerfield strain decayed least," shipmast "somewhat more" and the common locust "considerably more." Trees of the common lo-cust varied greatly in durability, but the others (vegetatively propagated) were uniformly durable.

As in other tree species, the white sapwood, just inside the bark, was not durable. The outer part of the heartwood, in all strains, was most resistant to rot, and the nearer the pith, the less was its resistance. Also, the wood lowest in the tree showed the greatest rot resistance. In general, the resistance of locust heartwood to rot is greater as the tree is larger. This is especially true of the outer heartwood. The yellow-colored wood proved a little more rot-resistant than the brown.

The old notion that locust posts cut in winter last longer in a fence than those cut at other seasons has not much to back it up, say the scientists. Posts of common locust cut in winter were slightly more resistant, but, in the case of the shipmast. summer-cut posts had a little advantage; however, in neither case was the difference of practical significance

What keeps locust heartwood from rotting? According to the scientists the tree builds up chemicals that poison the rot-producing fungi.

TO IMPROVE service in handling peat moss, Ernst Mayer, president of the Premier Peat Moss Corp., New York, is abroad working with the firm's European sources of supply. Mr. Mayer is expected to return in November from his trip of several months.

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